MITSUBISHI HEAVY INDUSTRIES, LTD.

Our Technologies, Your Tomorrow

R410A

Eco·lution

High Performance Air-Conditioning

FD series

Inverter Packaged Air-Conditioners

50/60Hz

10P01E-A-0

Hyper Inverter

Our new advanced technology has realized high efficiency, strong heating and long piping.
This contributes to the environmental protection through energy saving and permits installation of the units (4~6HP) considering a heating operation under temperature conditions down to -20˚C and design flexibility has been improved by extension of piping length to 100m.

1.5~2.5HP　　3HP　　4~6HP

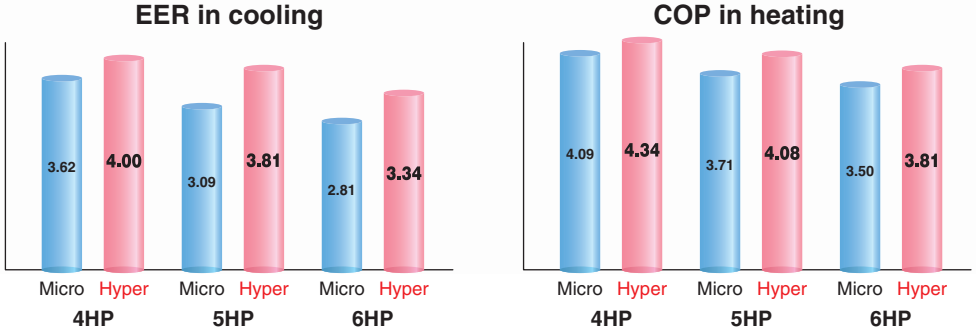
Line up

HP

	1.5	2	2.5	3	4	5	6	8	10
Hyper Inverter	●	●	●	●	●	●	●		

High efficiency

The industry's highest COP levels are achieved by our latest technologies, such as new high efficient twin rotary compressors and the combination with new Hyper inverter outdoor units.

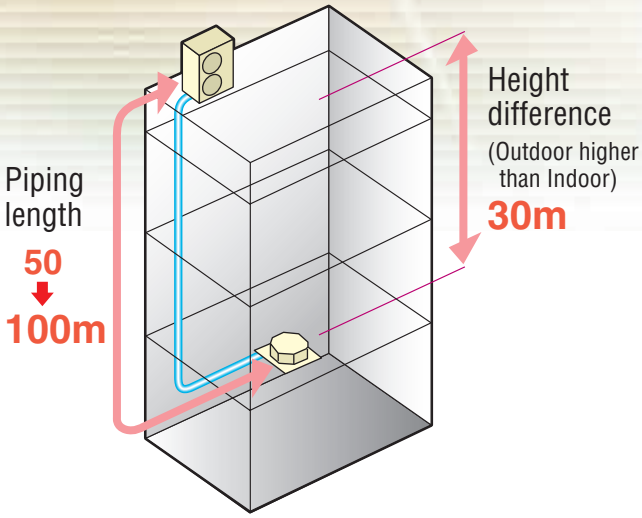


(comparison of FDT series)

MITSUBISHI HEAVY INDUSTRIES, LTD.

Long piping

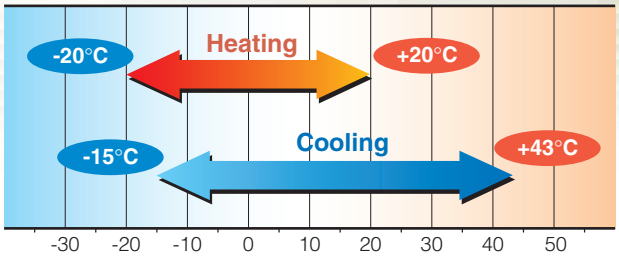
(in case of 4~6HP)



Strong heating

(in case of 4~6HP)

-20°C: Heating operation down to -20°C
-15°C: Nominal heating capacity maintained at -15°C



Max.heating capacity (kW)

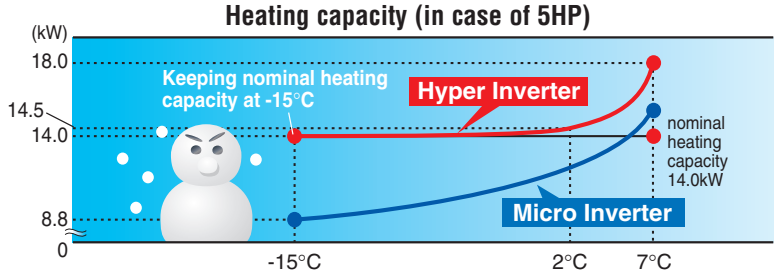
	Hyper Inverter	Micro Inverter
FDC100VSX(4HP, 3phase 380V)	**16.0**	12.5
FDC125VSX(5HP, 3phase 380V)	**18.0**	16.0
FDC140VSX(6HP, 3phase 380V)	**20.0**	16.5

Leading powerful heating capacity in the industry

Thanks to optimization of refrigeration control with use of electric expansion valve and development of new twin rotary compressors, max heating capacity has been increased.
Hyper Inverter series can reach the set temperature very quickly, keeping nominal heating capacity when outdoor temperature is -15°C. It is effective to be used even in cold area.

Temperature of supply air can reach 40°C in 4 minutes after start up under low temperature operation conditions (at both indoor and outdoor temperature of 2°C) and can reach 50°C in 8 minutes after that.

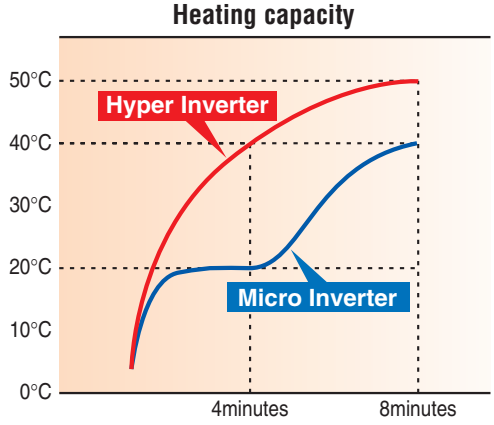
Heating capacity (in case of 5HP)



model name	nominal heating capacity (kW at outdoor temperature of 7°C)	heating capacity at outdoor temperature of -15°C
FDT100VSX(4HP, 3phase 380V)	11.2kW	11.2kW
FDT125VSX(5HP, 3phase 380V)	14.0kW	14.0kW
FDT140VSX(6HP, 3phase 380V)	16.0kW	16.0kW

Please refer to our technical manual for installation conditions, operation range and heating/cooling capacities.

Heating capacity



Micro Inverter

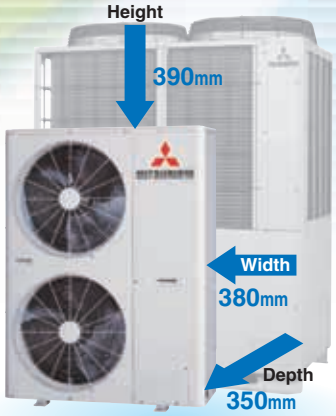
Compact Design of outdoor units

Line up

	1.5	2	2.5	3	4	5	6	8	10
Micro Inverter					●	●	●	●	●

HP

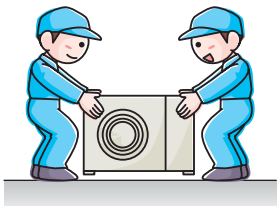
FDC100VN/VS (4.0HP)
FDC125VN/VS (5.0HP)
FDC140VN/VS (6.0HP)



FDC200VS (8.0HP)

FDC250VS (10.0HP)

Easy installation



Reduction in weight (kg)

	Former model	New model	*Reduction
4.0HP	82	74	-8
5.0HP	118	74	-44
6.0HP	125	74	-51
8.0HP	225	122	-103
10.0HP	225	140	-85

* Comparison with former models

Fits into elevators

Reduction in volume (%)

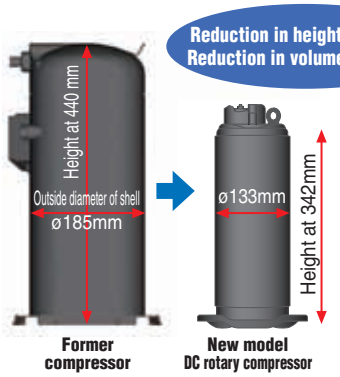
	Former model	New model	*Reduction
4.0HP	328	303	8%
5.0HP	467	303	35%
6.0HP	467	303	35%
8.0HP	1643	467	72%
10.0HP	1643	540	67%

* Comparison with former models

Size reduction and high efficiency performance on the DC twin rotary compressors

(Micro Inverter 4-6HP)

Employment of DC twin rotary compressor has enabled to utilize a high-speed range of up to 120 rps at the maximum to secure the required capacity.
Optimum compressor control has been realized by employing the vector control* and the starting current has been improved significantly compared with former models. Moreover, vibration has been reduced.



* Vector control means a. technique to realize an optimum control by converting the current wave to a smooth sinusoidal waveform

MITSUBISHI
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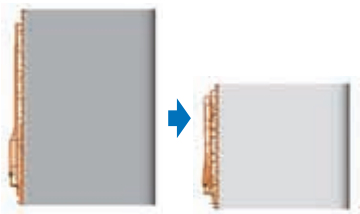
This product is equipped with a compressor manufactured by Mitsubishi Heavy Industries Ltd.

Improved efficiency of heat exchanger

Redesigning the fins to a straight shape has reduced the pressure loss of the airflow in the heat exchanger. Surface treatment on the fin has enhanced the frost resistance capacity compared with former models.
Owing to the reduction in the size of heat exchanger, the appropriate number of circuits for each HP has been applied. Employment of a high-speed motor has increased the airflow and enabled to keep the cooling capacity under a condition of higher outdoor air temperatures*.

* Limitation of use is around 43℃ at the maximum.

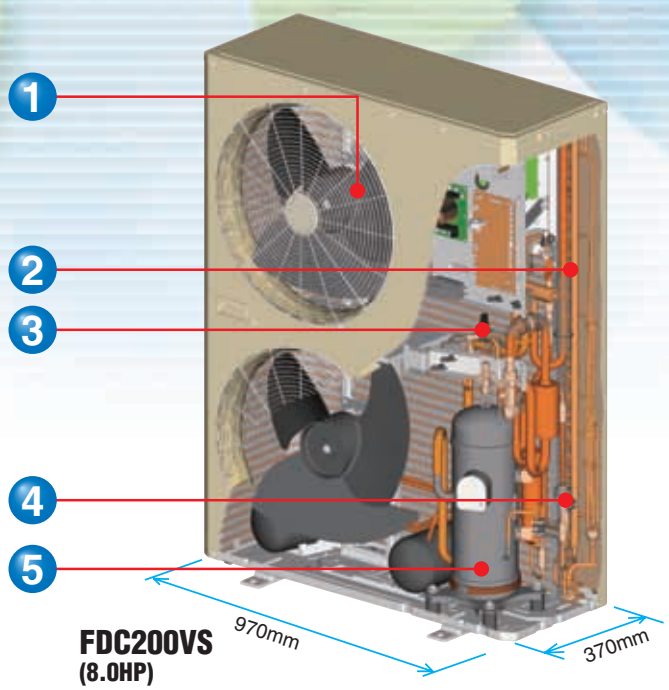


Former model New model

Controllability

Reliability in the protection of compressor has been improved by optimizing the controls of oil return, electronic expansion valve, etc.

High technology



FDC200VS
(8.0HP)

- POINT 1 DC fan motor uses less energy
- POINT 2 Optimization of heat exchanger path. More efficient heating and cooling
- POINT 3 Super heat control with low pressure sensor, works better in tough conditions
- POINT 4 High efficiency refrigeration circuit
- POINT 5 Newly developed High efficiency DC scroll compressor

Employment of the scroll inverter compressors(8/10HP)

A control over wide range of capacity and a high efficiency has been realized by inverter-driven scroll compressors.
In addition, the starting current significantly is improved.
The size has also been reduced by 3.2% in height and 31.8% in volume.

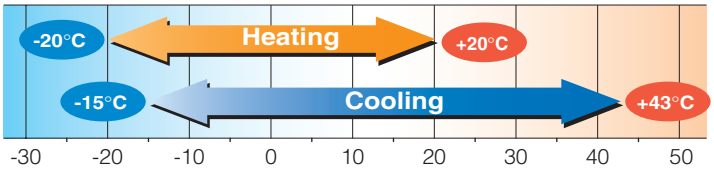
Employment of DC fan motor

Employment of DC fan motor has enabled to realize an excellent efficiency of approx. 60% higher than former models.

Wide range of operation

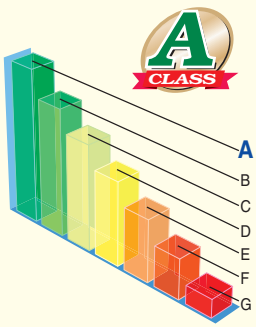
Our new advanced technology has expanded the heating and cooling operation range.
This permits installation of the units under a low outdoor temperature conditions down to -20°C In heating operation and -15°C in cooling operation.

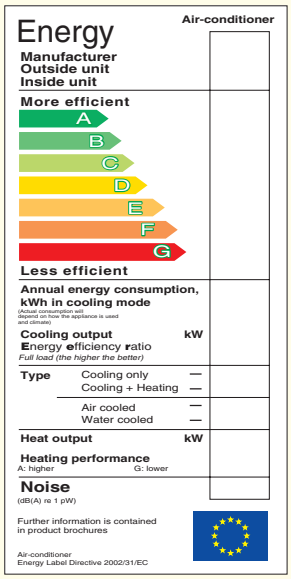
(FDC 100/125/140)



Energy labeling "Class A"

MHI models have cleared the class A standard, the highest energy saving level, with their high COP (coefficient of performance).





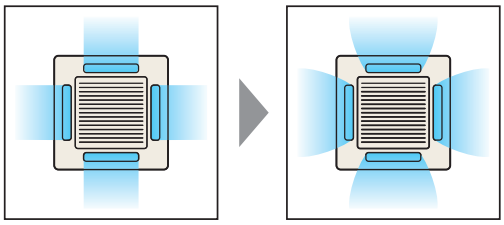
Ceiling Cassette -4way- Indoor units

FDT·FDTC

Individual flap control system

According to room temperature conditions, four directions of air flow can be controlled by individual flap as preferred.
As individual flap control is available even after installation, installation area became wider than before.

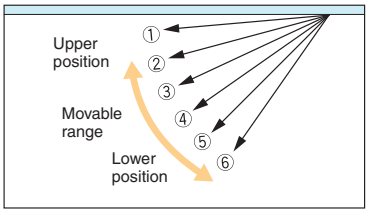
Due to optimization of outlet design of air flow with our new advanced technology, sufficient air flow is secured and long reach of air flow is realized.(FDT)

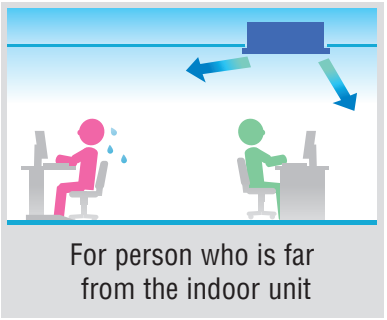


Flap control system

Selection of louver position is possible.
Louvers can be set at different angles.

*RCH-E3 is not applicable to the Individual flap control system and the Flap control system.



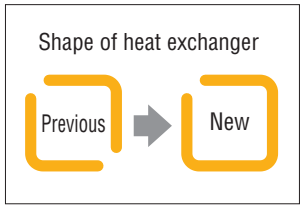


For person who is far from the indoor unit

The thinnest design

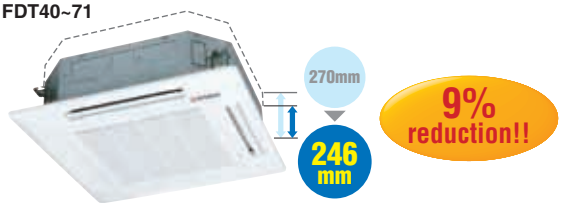
Thanks to new design of heat exchanger changed from 2 parts to 1 part, the height of indoor unit is reduced drastically.

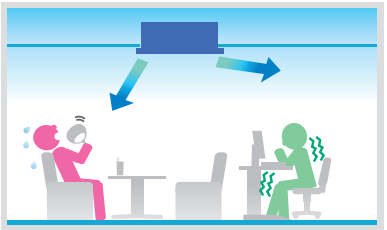
Furthermore applying DC fan motors, the highest energy efficiency level, reduction of weight and significant compact design are realized.



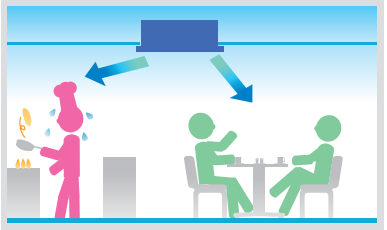
FDT125~140

FDT40~71





For both persons who are feeling hot or cold



Can cool both the kitchen and the guests

High efficiency

- **Reduction of air flow pressure loss**

  Expansion of outlet air flow area realizes reduction of pressure loss caused by air flow in the indoor unit. Load of fan motor is decreased and efficiency is increased.

- **Increase of heat transfer efficiency**

  Applying high efficient piping in heat exchanger and optimization of heat exchanger (2parts ➡ 1part) increases heat transfer efficiency.

Achieved COP 5.67

based on 50% capacity of FDT100V in heating operation
Air-conditioners are generally selected with the operation under the most severe ambient temperature conditions.
The inverter constantly adjusts compressor output to meet the exact demand of the indoor units.

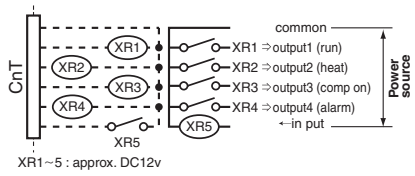
i.e. In case that selecting the capacity of an inverter air-conditioner based on heating operation at -5°C, its capacity drops by 50% at 7°C(ISO-TI measurement condition) and operation period at 50% capacity is normally longer than that at 100% of nominal heating capacity.

Considering annual electrical power consumption of inverter air-conditioners, it is quite important to give the first priority to 50% actual capacity and selecting inverter air-conditioners is the best solution for saving energy and protecting the environment.

Convenience

Signal output

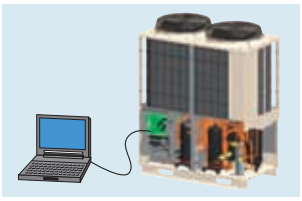
A dry contact is equipped on an indoor unit to meet a possible need for signal output on the site.



XR1~5 : approx. DC12v

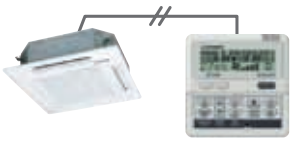
Monitoring Function

Equipped with RS232C for connection directly to your PC monitoring and service tasks made simple with our service software (“Mente PC”).



New remote control

Applying nonpolar 2-core in new remote control line for all indoor units, it is very convenient for installation including renewal case.



Consideration on the Environment

All models employ R410A, with RoHS* directive

Employment of lead-free solder

Adapt to RoHS

In order to comply with RoHS standard, the new inverter series products use lead-free solder. It was considered to be too difficult to use lead-free solder because it requires higher soldering temperatures at assembling, which could jeopardize the reliability of assembly, etc. PbF soldering method developed by us, however, has enabled a higher reliability for lead-free printed circuit boards.

*"RoHS" is the abbreviation of the new European standard, which means Restriction of Hazardous Substances.

Employment of the new refrigerant

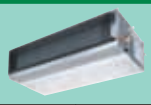
All models of the New inverter series use a new refrigerant R410A characterized by the ozone depletion coefficient being 0.

R410A

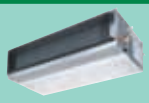
Energy Conservation

A High Performance and Excellent Energy Conservation are achieved at the same time by an increased capacity of heat exchanger and employment of high efficiency DC motor etc.

SINGLE [OUTDOOR UNIT : INDOOR UNIT = 1 : 1]

Type			Capacity (Hyper Inverter)				
		HP	1.5	2.0	2.5	3.0	4.0
		kW	4.0	5.0	6.0	7.1	10.0
		Btu/h	13,700	17,100	19,100	23,900	34,100
		kcal/h	3,440	4,300	4,816	6,020	8,600
CEILING CASSETTE	4way **FDT**	Indoor unit					
			FDT40VD	FDT50VD	FDT60VD	FDT71VD	FDT100VD
		Outdoor unit					
		1phase	SRC40ZIX-S	SRC50ZIX-S	SRC60ZIX-S	FDC71VNX	FDC100VNX
		3phase					FDC100VSX
		Set 1phase	**FDT40ZIXVD**	**FDT50ZIXVD**	**FDT60ZIXVD**	**FDT71VNXVD**	**FDT100VNXVD**
		Set 3phase					**FDT100VSXVD**
	4way compact (600 x 600mm) **FDTC**	Indoor unit					
			FDTC40VD	FDTC50VD	FDTC60VD		
		Outdoor unit					
		1phase	SRC40ZIX-S	SRC50ZIX-S	SRC60ZIX-S		
		Set 1phase	**FDTC40ZIXVD**	**FDTC50ZIXVD**	**FDTC60ZIXVD**		
DUCT CONNECTED	High Static pressure **FDU**	Indoor unit					
						FDU71VD	FDU100VD
		Outdoor unit					
		1phase				FDC71VNX	FDC100VNX
		3phase					FDC100VSX
		Set 1phase				***FDU71VNXVD**	***FDU100VNXVD**
		Set 3phase					***FDU100VSXVD**
	Low/Middle Static pressure **FDUM**	Indoor unit					
				FDUM50VD	FDUM60VD	FDUM71VD	FDUM100VD
		Outdoor unit					
		1phase		SRC50ZIX-S	SRC60ZIX-S	FDC71VNX	FDC100VNX
		3phase					FDC100VSX
		Set 1phase		**FDUM50ZIXVD**	**FDUM60ZIXVD**	**FDUM71VNXVD**	**FDUM100VNXVD**
		Set 3phase					**FDUM100VSXVD**
CEILING SUSPENDED	**FDEN**	Indoor unit					
			FDEN40VD	FDEN50VD	FDEN60VD	FDEN71VD	FDEN100VD
		Outdoor unit					
		1phase	SRC40ZIX-S	SRC50ZIX-S	SRC60ZIX-S	FDC71VNX	FDC100VNX
		3phase					FDC100VSX
		Set 1phase	**FDEN40ZIXVD**	**FDEN50ZIXVD**	**FDEN60ZIXVD**	**FDEN71VNXVD**	**FDEN100VNXVD**
		Set 3phase					**FDEN100VSXVD**

Range (Rated Cooling Capacity)

		Micro Inverter				
5.0	6.0	4.0	5.0	6.0	8.0	10.0
12.5	14.0	10.0	12.5	14.0	20.0	25.0
42,700	47,800	34,100	42,700	47,800	68,300	85,400
10,750	12,040	8,600	10,750	12,040	17,200	21,500
FDT125VD	FDT140VD	FDT100VD	FDT125VD	FDT140VD		
NEW						
FDC125VNX	FDC140VNX	FDC100VN	FDC125VN	FDC140VN		
FDC125VSX	FDC140VSX	FDC100VS	FDC125VS	FDC140VS		
FDT125VNXVD	**FDT140VNXVD**	**FDT100VNVD**	**FDT125VNVD**	**FDT140VNVD**		
FDT125VSXVD	**FDT140VSXVD**	**FDT100VSVD**	**FDT125VSVD**	**FDT140VSVD**		
						
FDU125VD	FDU140VD	FDU100VD	FDU125VD	FDU140VD	FDU200VD	FDU250VD
NEW						
FDC125VNX	FDC140VNX	FDC100VN	FDC125VN	FDC140VN		
FDC125VSX	FDC140VSX	FDC100VS	FDC125VS	FDC140VS	FDC200VS	FDC250VS
***FDU125VNXVD**	***FDU140VNXVD**	***FDU100VNVD**	***FDU125VNVD**	***FDU140VNVD**		
***FDU125VSXVD**	***FDU140VSXVD**	***FDU100VSVD**	***FDU125VSVD**	***FDU140VSVD**	**FDU200VSVD**	**FDU250VSVD**
FDUM125VD	FDUM140VD	FDUM100VD	FDUM125VD	FDUM140VD		
NEW						
FDC125VNX	FDC140VNX	FDC100VN	FDC125VN	FDC140VN		
FDC125VSX	FDC140VSX	FDC100VS	FDC125VS	FDC140VS		
FDUM125VNXVD	**FDUM140VNXVD**	**FDUM100VNVD**	**FDUM125VNVD**	**FDUM140VNVD**		
FDUM125VSXVD	**FDUM140VSXVD**	**FDUM100VSVD**	**FDUM125VSVD**	**FDUM140VSVD**		
FDEN125VD	FDEN140VD	FDEN100VD	FDEN125VD	FDEN140VD		
NEW						
FDC125VNX	FDC140VNX	FDC100VN	FDC125VN	FDC140VN		
FDC125VSX	FDC140VSX	FDC100VS	FDC125VS	FDC140VS		
FDEN125VNXVD	**FDEN140VSXVD**	**FDEN100VNVD**	**FDEN125VNVD**	**FDEN140VNVD**		
FDEN125VNXVD	**FDEN140VSXVD**	**FDEN100VSVD**	**FDEN125VSVD**	**FDEN140VSVD**		

*Not available in 60Hz

CEILING CASSETTE -4way-

FDT

FDT 40/50/60/71/
100/125/140VD

A CLASS

R410A

Wired remote control

RC-E4
(Option)

RCH-E3
(Option)

Wireless remote control

RCN-T-36W-E
(Option)

Point 1 Arrangement of installation balance of indoor unit

Checking from access ports with detachable covers at each corner, arrangement of installation balance of indoor unit can be available without removing a panel. Workability is improved and time of installation is reduced.

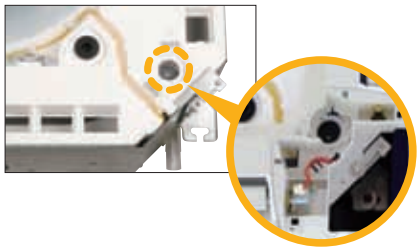
Point 2 Installation Workability

For wireless control simply insert the infrared receiver kit on a corner of the panel

wireless remote control
RCN-T-36W-E

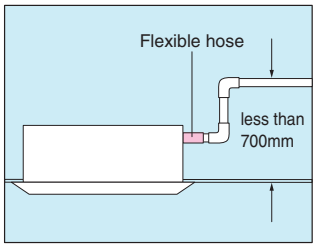
Point 3 Easy checking of drain pan

Easy checking of drain pan condition is available by removing corner lid only. Due to new design changing fan motor is available without removing a panel. Temporally setting of drain pan is also available.



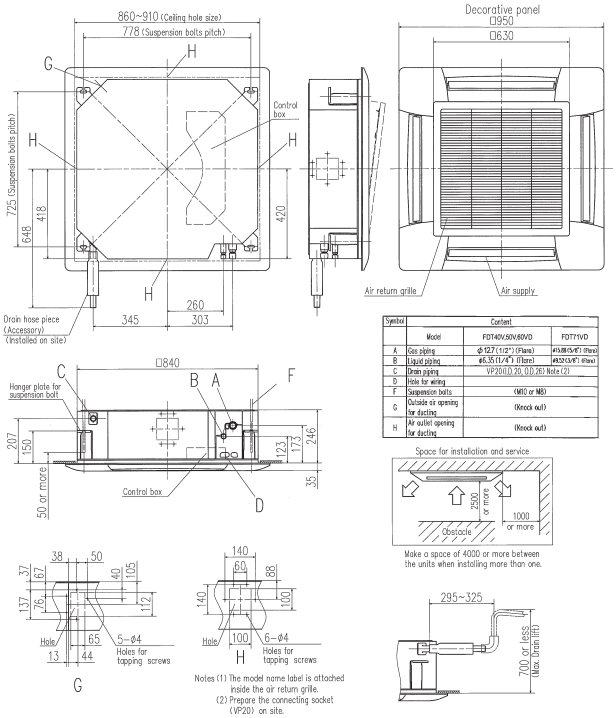
Point 4 700mm Drain Pump

Drain can be discharged upwards by 700mm from the ceiling surface. It allows a piping layout with a high degree of freedom Depending on the installation location and 260mm flexible hose as a standard equipment supports easy workability.



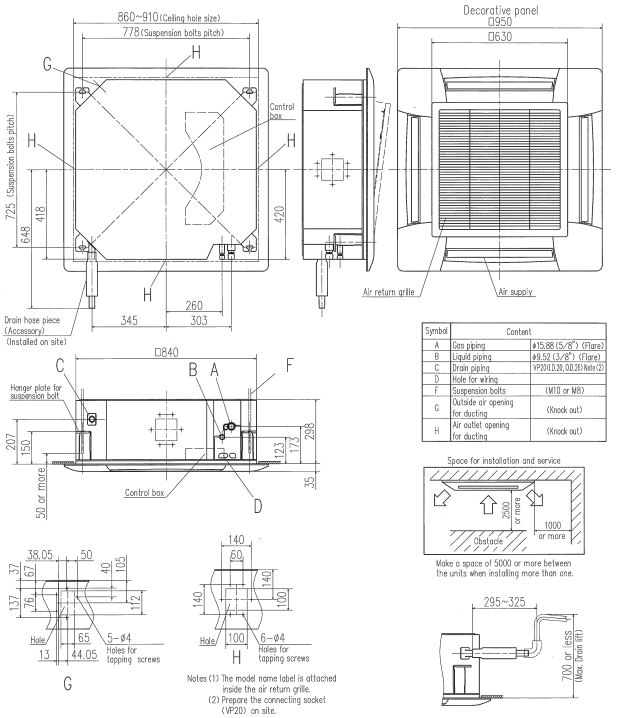
Outline drawing (Unit:mm)

Model FDT40,50,60,71VD


860~910 (Ceiling hole size)
778 (Suspension bolts pitch)
Decorative panel
□950
□630
Control box
Air return grille
Air supply
Drain hose piece (Accessory) (Installed on site)
□840
Hanger plate for suspension bolt
Control box
Space for installation and service
Obstacle
Make a space of 4000 or more between the units when installing more than one.
295~325
700 or less (Max. Drain lift)
Hole
Holes for tapping screws
Notes (1) The model name label is attached inside the air return grille.
(2) Prepare the connecting socket (VP20) on site.

Symbol	Model	Content FDT40VD,50VD,60VD	Content FDT71VD
A	Gas piping	ϕ12.7 (1/2") (Flare)	ϕ15.88 (5/8") (Flare)
B	Liquid piping	ϕ6.35 (1/4") (Flare)	ϕ9.52 (3/8") (Flare)
C	Drain piping	VP20 (I.D.26, O.D.32) Note (2)	
D	Hole for wiring		
F	Suspension bolts	(M10 or M8)	
G	Outside air opening for ducting	(Knock out)	
H	Air outlet opening for ducting	(Knock out)	

Model 100,125,140VD


860~910 (Ceiling hole size)
778 (Suspension bolts pitch)
Decorative panel
□950
□630
Control box
Air return grille
Air supply
Drain hose piece (Accessory) (Installed on site)
□840
Hanger plate for suspension bolt
Control box
Space for installation and service
Obstacle
Make a space of 5000 or more between the units when installing more than one.
295~325
700 or less (Max. Drain lift)
Hole
Holes for tapping screws
Notes (1) The model name label is attached inside the air return grille.
(2) Prepare the connecting socket (VP20) on site.

Symbol	Content
A	Gas piping ϕ15.88 (5/8") (Flare)
B	Liquid piping ϕ9.52 (3/8") (Flare)
C	Drain piping VP20 (I.D.18, O.D.26) Note (2)
D	Hole for wiring
F	Suspension bolts (M10 or M8)
G	Outside air opening for ducting (Knock out)
H	Air outlet opening for ducting (Knock out)

SPECIFICATIONS

				Hyper Inverter				
Set model name				**FDT40ZIXVD**	**FDT50ZIXVD**	**FDT60ZIXVD**	**FDT71VNXVD**	**FDT100VNXVD**
Indoor name				FDT40VD	FDT50VD	FDT60VD	FDT71VD	FDT100VD
Outdoor name				SRC40ZIX-S	SRC50ZIX-S	SRC60ZIX-S	FDC71VNX	FDC100VNX
Power source				1Phase 220-240V 50Hz, 1Phase 220V 60Hz				
Nominal cooling capacity (Min~Max)	ISO-T1(JIS)		kW	4.0 (1.8~4.7)	5.0 (2.2~5.6)	5.6 (2.8~6.3)	7.1 (3.2~8.0)	10.0 (4.0~11.2)
Nominal heating capacity (Min~Max)	ISO-T1(JIS)		kW	4.5 (2.0~5.4)	5.4 (2.5~6.3)	6.7 (3.1~7.1)	8.0 (3.6~9.0)	11.2 (4.0~12.5)
Power Consumption	Cooling/Heating		kW	0.93/1.15	1.29/1.29	1.57/1.85	1.90/2.07	2.50/2.58
COP	Cooling/Heating			4.30/3.91	3.88/4.19	3.57/3.62	3.74/3.86	4.00/4.34
Energy label	Cooling/Heating			A/A	A/A	A/A	A/A	A/A
Inrush current (Max. running current)			A	5(12)	5(14)		5(17)	5(24)
Sound level*1 ※	Indoor		dB(A)	Hi:33 Me:31 Lo:30			Hi:35 Me:33 Lo:31	Hi:40 Me:37 Lo:35
	Outdoor			47		48	Cooling:51 Heating:48	Cooling:48 Heating:50
Air flow ※	Indoor		CMM	Hi:18 Me:16 Lo:14		Hi:18 Me:16 Lo:14	Hi:21 Me:19 Lo:17	Hi:27 Me:24 Lo:20
	Outdoor			40			Cooling:60 Heating:50	100
Indoor unit: Exterior dimensions		Height x Width x Depth	mm	Unit:246x840x840 Panel:35x950x950				Unit:298x840x840 Panel:35x950x950
Indoor unit: Net weight		Unit+Panel	kg	27.5(Unit:22 Panel:5.5)		29.5(Unit:24 Panel:5.5)		32.5(Unit:27 Panel:5.5)
Indoor unit: Panel				T-PSA-3AW-E				
Indoor unit: Air filter, Q'ty				Pocket Plastic net x1 (Washable)				
Indoor unit: Remote control(option)				Wired:RC-E4, RCH-E3 Wireless:RCN-T-36W-E				
Outdoor unit: Exterior dimensions		Height x Width x Depth	mm	640x800(+71)x290			750x880(+88)x340	1,300x970x370
Outdoor unit: Net weight			kg	43			60	105
Outdoor unit: Type of compressor				Scroll			Rotary	
Outdoor unit: Ref.amount precharged			kg(m)	1.4(15)			2.95(30)	4.5(30)
Outdoor unit: Ref.piping size		Liquid/Gas	ø	6.35/12.7			9.52/15.88	
Range of usage: Ref.piping length			m	30			50	100
Range of usage: Vertical height difference		O/U is higher	m	20			30	30
Range of usage: Vertical height difference		O/U is lower	m	20			15	15
Operating temperature range	Cooling		O/U	-15~43*2				
Operating temperature range	Heating		O/U	-15~20			-20~20	

SPECIFICATIONS

				Hyper Inverter				
Set model name				**FDT125VNXVD**	**FDT140VNXVD**	**FDT100VSXVD**	**FDT125VSXVD**	**FDT140VSXVD**
Indoor name				FDT125VD	FDT140VD	FDT100VD	FDT125VD	FDT140VD
Outdoor name				FDC125VNX	FDC140VNX	FDC100VSX	FDC125VSX	FDC140VSX
Power source				1Phase 220-240V 50Hz, 1Phase 220V 60Hz		3Phase 380-415V 50Hz, 3Phase 380V 60Hz		
Nominal cooling capacity (Min~Max)	ISO-T1(JIS)		kW	12.5 (5.0~14.0)	14.0 (5.0~16.0)	10.0 (4.0~11.2)	12.5 (5.0~14.0)	14.0 (5.0~16.0)
Nominal heating capacity (Min~Max)	ISO-T1(JIS)		kW	14.0 (4.0~17.0)	16.0 (4.0~18.0)	11.2 (4.0~16.0)	14.0 (4.0~18.0)	16.0 (4.0~20.0)
Power Consumption	Cooling/Heating		kW	3.28/3.43	4.19/4.20	2.50/2.58	3.28/3.43	4.19/4.20
COP	Cooling/Heating			3.81/4.08	3.34/3.81	4.00/4.34	3.81/4.08	3.34/3.81
Energy label	Cooling/Heating			A/A	A/A	A/A	A/A	A/A
Inrush current (Max. running current)			A	5(26)		5(15)		
Sound level*1 ※	Indoor		dB(A)	Hi:42 Me:40 Lo:37	Hi:43 Me:41 Lo:38	Hi:40 Me:37 Lo:35	Hi:42 Me:40 Lo:37	Hi:43 Me:41 Lo:38
	Outdoor			Cooling:48 Heating:50	Cooling:49 Heating:52	Cooling:48 Heating:50		Cooling:49 Heating:52
Air flow ※	Indoor		CMM	Hi:30 Me:27 Lo:23		Hi:27 Me:24 Lo:20	Hi:30 Me:27 Lo:23	
	Outdoor			100				
Indoor unit: Exterior dimensions		Height x Width x Depth	mm	Unit:298x840x840 Panel:35x950x950				
Indoor unit: Net weight		Unit+Panel	kg	32.5(Unit:27 Panel:5.5)				
Indoor unit: Panel				T-PSA-3AW-E				
Indoor unit: Air filter, Q'ty				Pocket Plastic net x1 (Washable)				
Indoor unit: Remote control(option)				Wired:RC-E4, RCH-E3 Wireless:RCN-T-36W-E				
Outdoor unit: Exterior dimensions		Height x Width x Depth	mm	1,300x970x370				
Outdoor unit: Net weight			kg	105				
Outdoor unit: Type of compressor				Rotary				
Outdoor unit: Ref.amount precharged			kg(m)	4.5(30)				
Outdoor unit: Ref.piping size		Liquid/Gas	ø	9.52/15.88				
Range of usage: Ref.piping length			m	100				
Range of usage: Vertical height difference		O/U is higher	m	30				
Range of usage: Vertical height difference		O/U is lower	m	15				
Operating temperature range	Cooling		O/U	-15~43*2				
Operating temperature range	Heating		O/U	-20~20				

The data are measured under the following conditions(ISO-T1).
Cooling:Indoor temp. of 27˚CDB, 19˚CWB, and outdoor temp. of 35˚CDB. Heating:Indoor temp. of 20˚CDB, and outdoor temp. of 7˚CDB, 6˚CWB.
*1 : Indicates the value in an anechoic chamber. During operation these values are somewhat higher due to ambient conditions.
*2 : If a cooling operation is conducted when the outdoor air temperature is –5˚C or lower, the outdoor unit should be installed at a place where it is not influenced by natural wind. If wind blows, the low pressure will drop and compressor frequency will increase, this will cause the capacity to drop and may cause the unit to break down.

※ Powerful-Hi can be selected. Sound level: 40/50ZIXVD 39dB, 60ZIXVD 46dB, 71VNXVD 46dB, 100/125/140VNXVD 51dB, 100/125/140VSXVD 51dB
Air flow: 40/50ZIXVD 20CMM, 60ZIXVD 28CMM, 71VNXVD 28CMM, 100/125/140VNXVD 37CMM, 100/125/140VSXVD 37CMM

CEILING CASSETTE -4way Compact (600 X 600mm)-

FDTC

A CLASS

R410A

Fits into standard 600 x 600 ceiling

FDTC 40/50/60VD

Wired remote control

RC-E4
(Option)

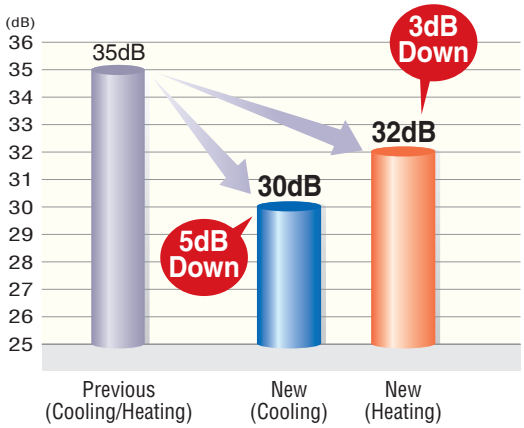
RCH-E3
(Option)

Wireless remote control

RCN-TC-24W-ER
(Option)

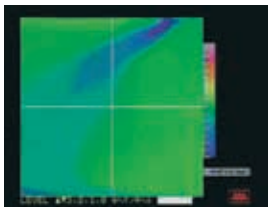
Point 1 Quiet operation

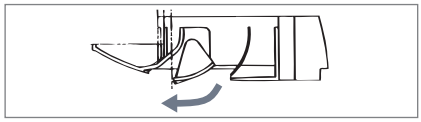
(Sound level in the Lo mode)



FDTC40/50/60VD

Point 2 "CLEARER" Air Flow





New shape & angled louver redirects the air current away from the ceiling, to reduce ceiling stains

Point 3 Installation Workability

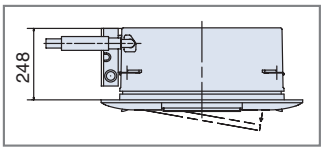
For wireless control simply insert the infrared receiver kit on a corner of the panel

wireless remote control
RCN-TC-24W-ER

Point 4 Compact Concept

The industry's lowest level 248mm height.

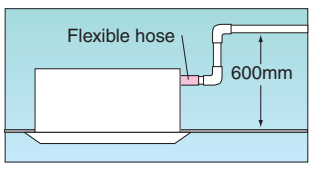
Panel size (700×700) is suitable for 600×600 ceiling panel. All indoor unit size is (W×D: 570×570). It brings easy installation for 600×600 ceiling panel.



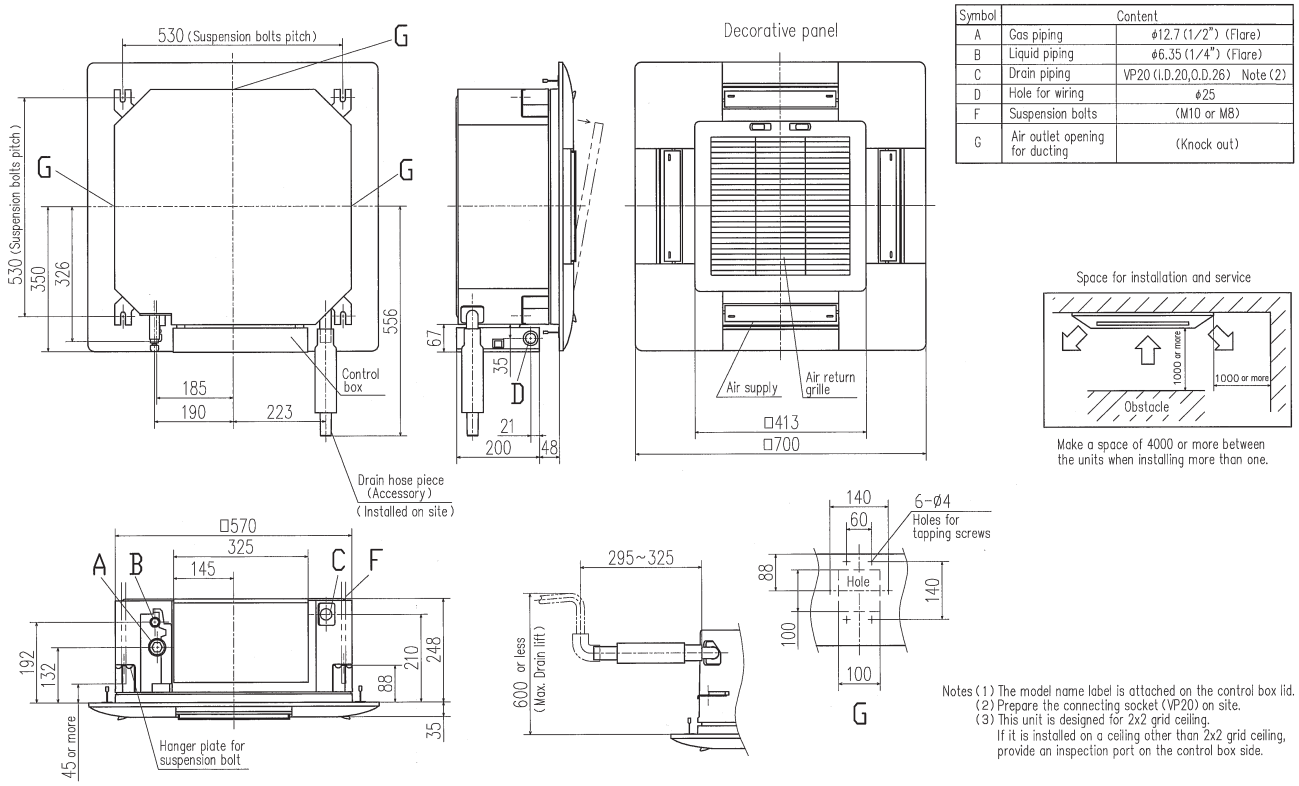
Ultra slim design at just 248mm above the ceiling

Point 5 Comfortable and Convenient

- All units are 18.5kg, light weight unit.
- Thanks to width and depth of exterior dimensions of a indoor unit are 570mm each, the installation work can be conducted smoothly with a beautiful finishing in 2x2 ceiling size.
- **600mm Drain Pump is mounted.**
  Drain can be discharged upward by 600 mm from the ceiling surface close to the indoor unit. It allows a piping layout with a high degree of freedom depending on the installation location.



Outline drawing (Unit:mm)



Symbol	Content	
A	Gas piping	ø12.7 (1/2") (Flare)
B	Liquid piping	ø6.35 (1/4") (Flare)
C	Drain piping	VP20 (I.D.20,O.D.26) Note (2)
D	Hole for wiring	ø25
F	Suspension bolts	(M10 or M8)
G	Air outlet opening for ducting	(Knock out)

Notes (1) The model name label is attached on the control box lid.
(2) Prepare the connecting socket (VP20) on site.
(3) This unit is designed for 2x2 grid ceiling.
If it is installed on a ceiling other than 2x2 grid ceiling, provide an inspection port on the control box side.

SPECIFICATIONS

				Hyper Inverter		
Set model name				**FDTC40ZIXVD**	**FDTC50ZIXVD**	**FDTC60ZIXVD**
Indoor name				FDTC40VD	FDTC50VD	FDTC60VD
Outdoor name				SRC40ZIX-S	SRC50ZIX-S	SRC60ZIX-S
Power source				1Phase 220-240V 50Hz, 1Phase 220V 60Hz		
Nominal cooling capacity (Min~Max)		ISO-T1(JIS)	kW	4.0 (1.8~4.7)	5.0 (2.2~5.6)	5.6 (2.8~6.3)
Nominal heating capacity (Min~Max)		ISO-T1(JIS)	kW	4.5 (2.0~5.4)	5.4 (2.5~6.3)	6.7 (3.1~6.7)
Power Consumption		Cooling/Heating	kW	1.04/1.10	1.56/1.45	1.99/2.08
COP		Cooling/Heating		3.85/4.09	3.21/3.72	2.81/3.22
Energy label		Cooling/Heating		A/A	A/A	C/C
Inrush current (Max. running current)			A	5(12)	5(14)	
Sound level *1 ※		Indoor	dB(A)	Cooling : Hi:42 Me:36 Lo:30 Heating : Hi:42 Me:36 Lo:32		Cooling : Hi:46 Me:39 Lo:30 Heating : Hi:46 Me:39 Lo:32
		Outdoor		47		48
Air flow ※		Indoor	CMM	Cooling : Hi:11.5 Me:9 Lo:7 Heating : Hi:11.5 Me:9 Lo:8		Cooling : Hi:13.5 Me:10 Lo:7 Heating : Hi:13.5 Me:10 Lo:8
		Outdoor		40		
Indoor unit	Exterior dimensions	Height x Width x Depth	mm	Unit:248x570x570 Panel:35x700x700		
	Net weight	Unit+Panel	kg	18.5(Unit:15 Panel:3.5)		
	Panel			TC-PSA-25W-E		
	Air filter, Q'ty			Pocket Plastic net x1 (Washable)		
	Remote control(option)			Wired:RC-E4, RCH-E3 Wireless:RCN-TC-24W-ER		
Outdoor unit	Exterior dimensions	Height x Width x Depth	mm	640x800(+71)x290		
	Net weight		kg	43		
	Type of compressor			Scroll		
	Ref.amount precharged		kg(m)	1.4(15)		
	Ref.piping size	Liquid/Gas	ø	6.35/12.7		
Range of usage	Ref.piping length		m	30		
	Vertical height difference	O/U is higher	m	20		
		O/U is lower	m	20		
Operating temperature range		Cooling	O/U	-15~43*2		
		Heating	O/U	-15~20		

The data are measured under the following conditions(ISO-T1).
Cooling:Indoor temp. of 27˚CDB, 19˚CWB, and outdoor temp. of 35˚CDB. Heating:Indoor temp. of 20˚CDB, and outdoor temp. of 7˚CDB, 6˚CWB.
*1 : Indicates the value in an anechoic chamber. During operation these values are somewhat higher due to ambient conditions.
*2 : If a cooling operation is conducted when the outdoor air temperature is –5˚C or lower, the outdoor unit should be installed at a place where it is not influenced by natural wind. If wind blows, the low pressure will drop and compressor frequency will increase, this will cause the capacity to drop and may cause the unit to break down.

※ Powerful-Hi can be selected. Sound level: 40/50/60ZIXVD 47dB Air flow: 40/50/60ZIXVD 13.5CMM

DUCT CONNECTED -High Static pressure-

FDU

A CLASS

R410A

Wired remote control

RC-E4 (Option)

RCH-E3 (Option)

Wireless remote control

RCN-KIT3-E (Option)

FDU 71/100/125/140VD

FDU 200/250VD

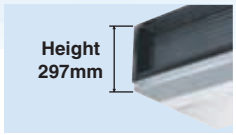
Fan control kit (100~200Pa)

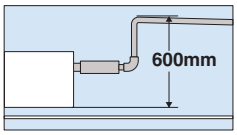
U-FCRA [For 200/250VD] (option)

Point 1 Enhanced installation workability

Quiet, Lightweight and Compact

With the FDU71, the noise level is only 37dB (low), weight is only 40kg and height is only 297mm.
In addition 600mm Drain Pump is mounted in FDU71/100/125/140VD.
The indoor unit is completely hidden in the ceiling, so this is suitable for spaces with classy interior decoration.

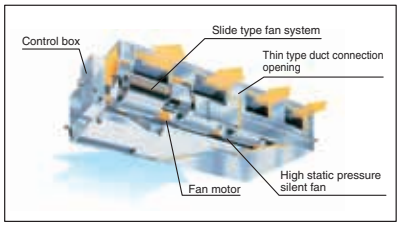




Point 2 Adaptability to higher static pressures

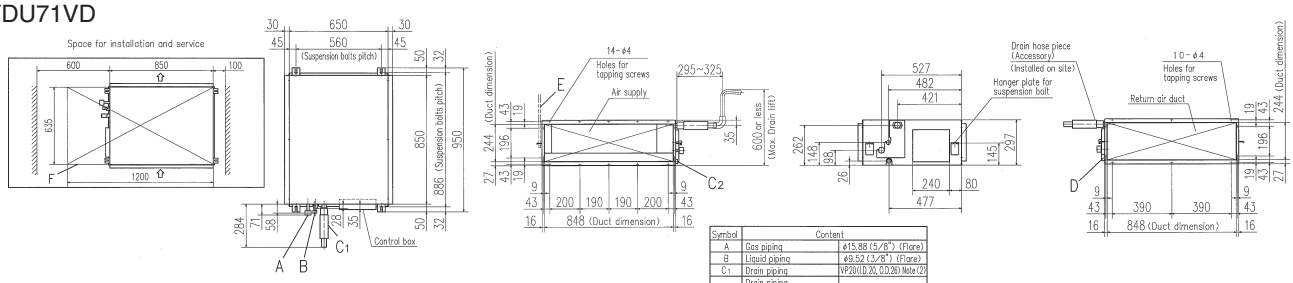
High static pressure of 200 Pa (FDU200/250VD) extends the degree of freedom in the designing of air conditioners.

This is a real and earnest model for duct air-conditioning.
A unit external static pressure of up to 200 Pa (FDU200/250VD) is possible.
Precise air flow designing is possible.



Outline drawing (Unit:mm)

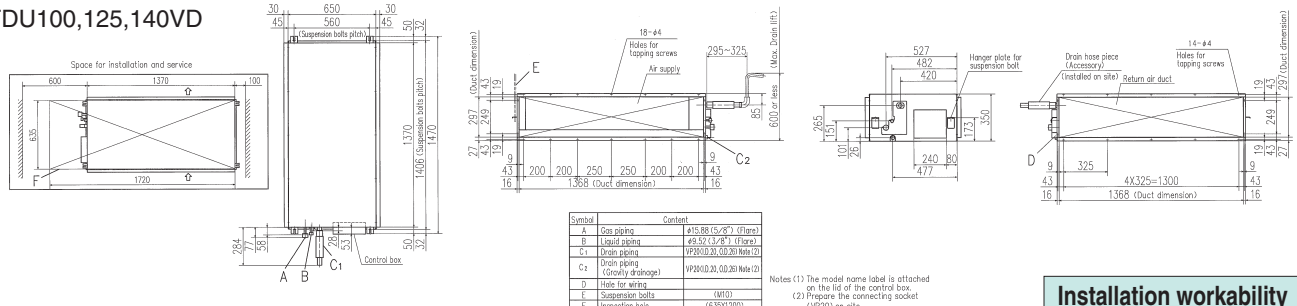
FDU71VD



Symbol	Content	
A	Gas piping	ø15.88 (5/8") (Flare)
B	Liquid piping	ø9.52 (3/8") (Flare)
C1	Drain piping	VP20(I.D.20, O.D.26) Note (2)
C2	Drain piping (Gravity drainage)	VP20(I.D.20, O.D.26) Note (2)
D	Hole for wiring	
E	Suspension bolts	(M10)
F	Inspection hole	(635X1200)

Notes (1) The model name label is attached on the lid of the control box.
(2) Prepare the connecting socket (VP20) on site.

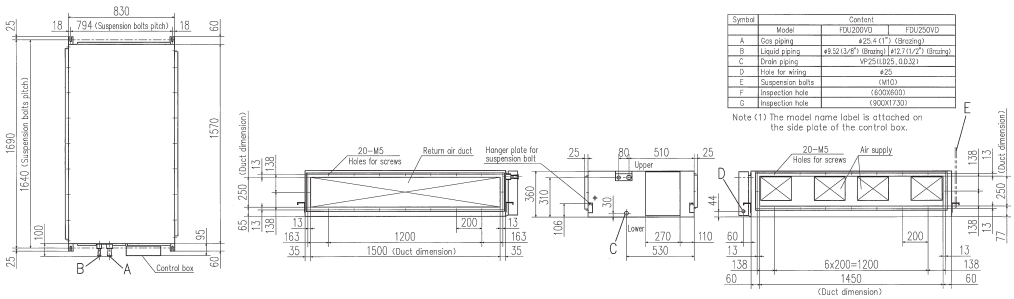
FDU100,125,140VD



Symbol	Content	
A	Gas piping	ø15.88 (5/8") (Flare)
B	Liquid piping	ø9.52 (3/8") (Flare)
C1	Drain piping	VP20(I.D.20, O.D.26) Note (2)
C2	Drain piping (Gravity drainage)	VP20(I.D.20, O.D.26) Note (2)
D	Hole for wiring	
E	Suspension bolts	(M10)
F	Inspection hole	(635X1200)

Notes (1) The model name label is attached on the lid of the control box.
(2) Prepare the connecting socket (VP20) on site.

FDU200,250VD

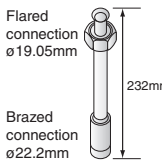


Symbol	Content	
	Model	FDU200VD / FDU250VD
A	Gas piping	ø25.4 (1") (Brazing)
B	Liquid piping	ø9.52 (3/8") (Brazing) / ø12.7 (1/2") (Brazing)
C	Drain piping	VP25(I.D.25, O.D.32)
D	Hole for wiring	ø25
E	Suspension bolts	(M10)
F	Inspection hole	(600X600)
G	Inspection hole	(300X1730)

Note (1) The model name label is attached on the side plate of the control box.

Installation workability (FDU200,250VD)

Using piping attachment that has flared connection and brazed connection ends, there is no need conduct brazing work inside the outdoor unit.



SPECIFICATIONS

*Not available in 60Hz

				Hyper Inverter			
Set model name				*FDU71VNXVD	*FDU100VNXVD	*FDU125VNXVD	*FDU140VNXVD
Indoor name				FDU71VD	FDU100VD	FDU125VD	FDU140VD
Outdoor name				FDC71VNX	FDC100VNX	FDC125VNX	FDC140VNX
Power source				1Phase 220-240V 50Hz			
Nominal cooling capacity (Min~Max)		ISO-T1(JIS)	kW	7.1 (3.2~8.0)	10.0 (4.0~11.2)	12.5 (5.0~14.0)	14.0 (5.0~16.0)
Nominal heating capacity (Min~Max)		ISO-T1(JIS)	kW	8.0 (3.6~9.0)	11.2 (4.0~12.5)	14.0 (4.0~17.0)	16.0 (4.0~18.0)
Power Consumption		Cooling/Heating	kW	2.15/2.15	2.78/2.90	3.44/3.67	4.20/4.30
COP		Cooling/Heating		3.30/3.72	3.60/3.86	3.63/3.81	3.33/3.72
Energy label		Cooling/Heating		A/A	A/A	A/A	A/A
Inrush current (Max. running current)			A	5(17)	5(25)	5(29)	5(30)
Sound level*1		Indoor	dB(A)	Hi:41 Lo:37	Hi:42 Lo:37	Hi:43 Lo:38	
		Outdoor		Cooling:51 Heating:48	Cooling:48 Heating:50		Cooling:49 Heating:52
Air flow		Indoor	CMM	Hi:20 Lo:17	Hi:34 Lo:27	Hi:42 Lo:33.5	
		Outdoor		Cooling:60 Heating:50	100		
External static pressure			Pa	Standard:50, Max:130			
Indoor unit	Exterior dimensions	Height x Width x Depth	mm	297x850x650	350x1,370x650		
	Net weight		kg	40	63		
	Air filter, Q'ty			Procure locally			
	Remote control(option)			Wired:RC-E4, RCH-E3 Wireless:RCN-KIT3-E			
Outdoor unit	Exterior dimensions	Height x Width x Depth	mm	750x880(+88)x340	1,300x970x370		
	Net weight		kg	60	105		
	Type of compressor			Rotary			
	Ref.amount precharged		kg(m)	2.95(30)	4.5(30)		
	Ref.piping size	Liquid/Gas	ø	9.52/15.88			
Range of usage	Ref.piping length		m	50	100		
	Vertical height difference	O/U is higher	m	30			
		O/U is lower	m	15			
Operating temperature range	Cooling		O/U	-15~43*2			
	Heating		O/U	-20~20			

SPECIFICATIONS

*Not available in 60Hz

				Hyper Inverter		
Set model name				*FDU100VSXVD	*FDU125VSXVD	*FDU140VSXVD
Indoor name				FDU100VD	FDU125VD	FDU140VD
Outdoor name				FDC100VSX	FDC125VSX	FDC140VSX
Power source				3Phase 380-415V 50Hz		
Nominal cooling capacity (Min~Max)		ISO-T1(JIS)	kW	10.0 (4.0~11.2)	12.5 (5.0~14.0)	14.0 (5.0~16.0)
Nominal heating capacity (Min~Max)		ISO-T1(JIS)	kW	11.2 (4.0~16.0)	14.0 (4.0~18.0)	16.0 (4.0~20.0)
Power Consumption		Cooling/Heating	kW	2.78/2.90	3.44/3.67	4.20/4.30
COP		Cooling/Heating		3.60/3.86	3.63/3.81	3.33/3.72
Energy label		Cooling/Heating		A/A	A/A	A/A
Inrush current (Max. running current)			A	5(16)	5(18)	5(19)
Sound level*1		Indoor	dB(A)	Hi:42 Lo:37	Hi:43 Lo:38	
		Outdoor		Cooling:48 Heating:50	Cooling:48 Heating:50	Cooling:49 Heating:52
Air flow		Indoor	CMM	Hi:34 Lo:27	Hi:42 Lo:33.5	
		Outdoor		100		
External static pressure			Pa	Standard:50, Max:130		
Indoor unit	Exterior dimensions	Height x Width x Depth	mm	350x1,370x650		
	Net weight		kg	63		
	Air filter, Q'ty			Procure locally		
	Remote control(option)			Wired:RC-E4, RCH-E3 Wireless:RCN-KIT3-E		
Outdoor unit	Exterior dimensions	Height x Width x Depth	mm	1,300x970x370		
	Net weight		kg	105		
	Type of compressor			Rotary		
	Ref.amount precharged		kg(m)	4.5(30)		
	Ref.piping size	Liquid/Gas	ø	9.52/15.88		
Range of usage	Ref.piping length		m	100		
	Vertical height difference	O/U is higher	m	30		
		O/U is lower	m	15		
Operating temperature range	Cooling		O/U	-15~43*2		
	Heating		O/U	-20~20		

The data are measured under the following conditions(ISO-T1).
Cooling:Indoor temp. of 27˚CDB, 19˚CWB, and outdoor temp. of 35˚CDB. Heating:Indoor temp. of 20˚CDB, and outdoor temp. of 7˚CDB, 6˚CWB. External static pressure of FDU71/100/125/140 is 60Pa and that of FDU200/250 is 100Pa.

*1 : Indicates the value in an anechoic chamber. During operation these values are somewhat higher due to ambient conditions.

*2 : External static pressure is changeable to be set by the remote control. Standard external static pressure is factory setting. MAX external static pressure is "High static pressure" setting. The values of sound pressure level become 5dB(A) higher at eternal static pressure of 130Pa.

*3 : If a cooling operation is conducted when the outdoor air temperature is –5˚C or lower, the outdoor unit should be installed at a place where it is not influenced by natural wind. If wind blows, the low pressure will drop and compressor frequency will increase, this will cause the capacity to drop and may cause the unit to break down.

DUCT CONNECTED -Middle Static pressure-

FDUM

A CLASS

R410A

Wired remote control

RC-E4 (Option)

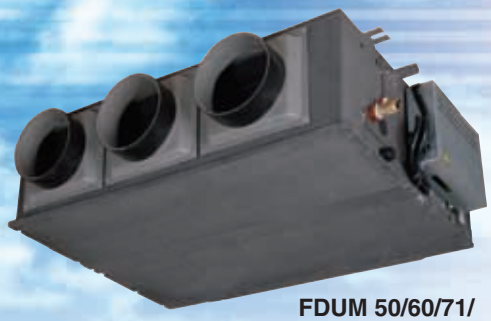
RCH-E3 (Option)

Wireless remote control

RCN-KIT3-E (Option)

Filter kit
UM-FL1E : for 50
UM-FL2E : for 60, 71
UM-FL3E : for 100, 125, 140
(option)

external static pressure loss:5pa



FDUM 50/60/71/ 100/125/140VD

Point 1 Various Adaptability

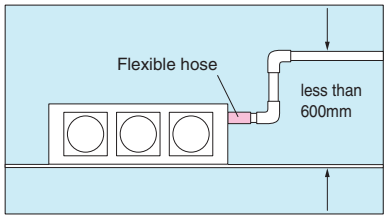
Selectable static pressure and Flexible duct design with selectable air suction (direct suction /duct suction) can meet wide pattern of installation.

Static pressure Pa (50Hz)

model	Standard	Max
50/60/71VD	50	85
100VD	60	90
125/140VD	60	85

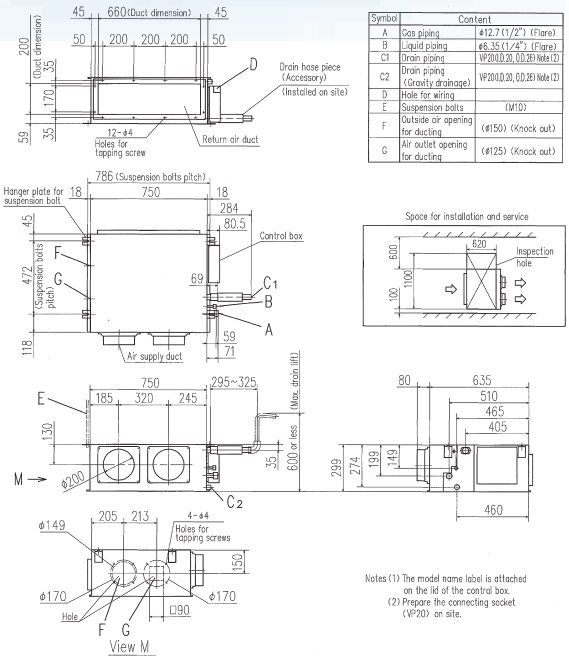
Point 2 600mm Drain Pump

Drain can be discharged upwards by 600mm from the ceiling surface. It allows a piping layout with a high degree of freedom Depending on the installation location.



Outline drawing(Unit:mm)

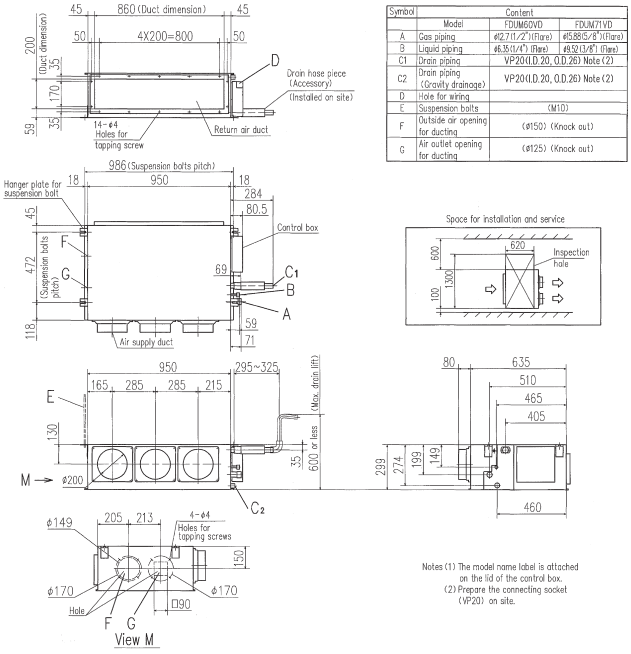
Model FDUM50VD



Symbol	Content	
A	Gas piping	ø12.7 (1/2") (Flare)
B	Liquid piping	ø6.35 (1/4") (Flare)
C1	Drain piping	VP20 (I.D.20, O.D.26) Note (2)
C2	Drain piping (Gravity drainage)	VP20 (I.D.20, O.D.26) Note (2)
D	Hole for wiring	
E	Suspension bolts	(M10)
F	Outside air opening for ducting	(ø150) (Knock out)
G	Air outlet opening for ducting	(ø125) (Knock out)

Notes (1) The model name label is attached on the lid of the control box.
(2) Prepare the connecting socket (VP20) on site.

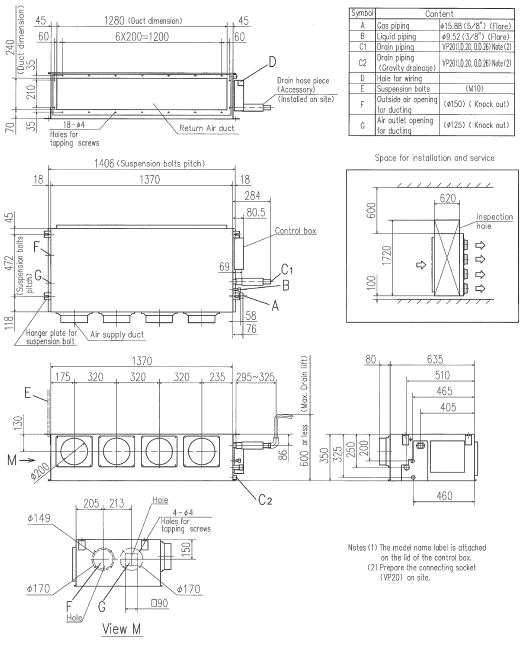
Models FDUM60V,71VD



Symbol	Model	FDUM60VD	FDUM71VD
A	Gas piping	ø12.7 (1/2") (Flare)	ø15.88 (5/8") (Flare)
B	Liquid piping	ø6.35 (1/4") (Flare)	ø9.52 (3/8") (Flare)
C1	Drain piping	VP20 (I.D.20, O.D.26) Note (2)	
C2	Drain piping (Gravity drainage)	VP20 (I.D.20, O.D.26) Note (2)	
D	Hole for wiring		
E	Suspension bolts	(M10)	
F	Outside air opening for ducting	(ø150) (Knock out)	
G	Air outlet opening for ducting	(ø125) (Knock out)	

Notes (1) The model name label is attached on the lid of the control box.
(2) Prepare the connecting socket (VP20) on site.

Models FDUM100V,125V,140VD



Symbol	Content	
A	Gas piping	ø15.88 (5/8") (Flare)
B	Liquid piping	ø9.52 (3/8") (Flare)
C1	Drain piping	VP20 (I.D.20, O.D.26) Note (2)
C2	Drain piping (Gravity drainage)	VP20 (I.D.20, O.D.26) Note (2)
D	Hole for wiring	
E	Suspension bolts	(M10)
F	Outside air opening for ducting	(ø150) (Knock out)
G	Air outlet opening for ducting	(ø125) (Knock out)

Notes (1) The model name label is attached on the lid of the control box.
(2) Prepare the connecting socket (VP20) on site.

SPECIFICATIONS

				Hyper Inverter			
Set model name				**FDUM50ZIXVD**	**FDUM60ZIXVD**	**FDUM71VNVD**	**FDUM100VNXVD**
Indoor name				FDUM50VD	FDUM60VD	FDUM71VD	FDUM100VD
Outdoor name				SRC50ZIX-S	SRC60ZIX-S	FDC71VNX	FDC100VNX
Power source				1Phase 220-240V 50Hz, 1Phase 220V 60Hz			
Nominal cooling capacity (Min~Max)		ISO-T1(JIS)	kW	5.0 (2.2~5.6)	5.6 (2.8~6.3)	7.1 (3.2~8.0)	10.0 (4.0~11.2)
Nominal heating capacity (Min~Max)		ISO-T1(JIS)	kW	5.4 (2.5~6.3)	6.7 (3.1~7.1)	8.0 (3.6~9.0)	11.2 (4.0~12.5)
Power Consumption		Cooling/Heating	kW	1.52/1.41	1.86/1.96	2.14/2.16	2.72/2.95
COP		Cooling/Heating		3.29/3.83	3.01/3.42	3.32/3.70	3.68/3.80
Energy label		Cooling/Heating		A/A	B/B	A/A	A/A
Inrush current (Max. running current)			A	5(14)		5(17)	5(24)
Sound level*1 ※		Indoor	dB(A)	Hi:34 Me:31 Lo:28		Hi:35 Me:32 Lo:29	Hi:37 Me:35 Lo:32
		Outdoor		47	48	Cooling:51 Heating:48	Cooling:48 Heating:50
Air flow ※		Indoor	CMM	Hi:13 Me:12 Lo:11	Hi:16 Me:15 Lo:14	Hi:20 Me:18 Lo:15	Hi:28 Me:25 Lo:22
		Outdoor		40		Cooling:60 Heating:50	100
Static pressure		50Hz/60Hz	Pa	Standard:50/40, Max:85/90	Standard:50/40, Max:85/100		Standard:60/60, Max:90/100
Indoor unit	Exterior dimensions	Height x Width x Depth	mm	299x750x635	299x950x635		350x1,370x635
Indoor unit	Net weight		kg	34	40		59
Indoor unit	Air filter, Q'ty			Procure locally			
Indoor unit	Remote control(option)			Wired:RC-E4, RCH-E3 Wireless:RCN-KIT3-E			
Outdoor unit	Exterior dimensions	Height x Width x Depth	mm	640x800(+71)x290		750x880(+88)x340	1,300x970x370
Outdoor unit	Net weight		kg	43		60	105
Outdoor unit	Type of compressor			Scroll		Rotary	
Outdoor unit	Ref.amount precharged		kg(m)	1.4(15)		2.95(30)	4.5(30)
Outdoor unit	Ref.piping size	Liquid/Gas	ø	6.35/12.7		9.52/15.88	
Range of usage	Ref.piping length		m	30		50	100
Range of usage	Vertical height difference	O/U is higher	m	20		30	
Range of usage	Vertical height difference	O/U is lower	m	20		15	
Operating temperature range		Cooling	O/U	-15~43*2			
Operating temperature range		Heating	O/U	-15~20		-20~20	

SPECIFICATIONS

				Hyper Inverter				
Set model name				**FDUM125VNXVD**	**FDUM140VNXVD**	**FDUM100VSXVD**	**FDUM125VSXVD**	**FDUM140VSXVD**
Indoor name				FDUM125VD	FDUM140VD	FDUM100VD	FDUM125VD	FDUM140VD
Outdoor name				FDC125VNX	FDC140VNX	FDC100VSX	FDC125VSX	FDC140VSX
Power source				1Phase 220-240V 50Hz, 1Phase 220V 60Hz			3Phase 380-415V 50Hz, 3Phase 380V 60Hz	
Nominal cooling capacity (Min~Max)		ISO-T1(JIS)	kW	12.5 (5.0~14.0)	14.0 (5.0~16.0)	10.0 (4.0~11.2)	12.5 (5.0~14.0)	14.0 (5.0~16.0)
Nominal heating capacity (Min~Max)		ISO-T1(JIS)	kW	14.0 (4.0~17.0)	16.0 (4.0~18.0)	11.2 (4.0~16.0)	14.0 (4.0~18.0)	16.0 (4.0~20.0)
Power Consumption		Cooling/Heating	kW	3.62/3.77	4.34/4.69	2.72/2.95	3.62/3.77	4.34/4.69
COP		Cooling/Heating		3.45/3.71	3.23/3.41	3.68/3.80	3.45/3.71	3.23/3.41
Energy label		Cooling/Heating		A/A	A/B	A/A	A/A	A/B
Inrush current (Max. running current)			A	5(26)		5(15)		
Sound level*1 ※		Indoor	dB(A)	Hi:38 Me:36 Lo:33		Hi:37 Me:35 Lo:32	Hi:38 Me:36 Lo:33	
		Outdoor		Cooling:48 Heating:50	Cooling:49 Heating:52	Cooling:48 Heating:50		Cooling:49 Heating:52
Air flow ※		Indoor	CMM	Hi:28 Me:25 Lo:22				
		Outdoor		100				
Static pressure		50Hz/60Hz	Pa	Standard:60/55, Max:85/100		Standard:60/60, Max:90/100	Standard:60/55, Max:85/100	
Indoor unit	Exterior dimensions	Height x Width x Depth	mm	350x1,370x635				
Indoor unit	Net weight		kg	59				
Indoor unit	Air filter, Q'ty			Procure locally				
Indoor unit	Remote control(option)			Wired:RC-E4, RCH-E3 Wireless:RCN-KIT3-E				
Outdoor unit	Exterior dimensions	Height x Width x Depth	mm	1,300x970x370				
Outdoor unit	Net weight		kg	105				
Outdoor unit	Type of compressor			Rotary				
Outdoor unit	Ref.amount precharged		kg(m)	4.5(30)				
Outdoor unit	Ref.piping size	Liquid/Gas	ø	9.52/15.88				
Range of usage	Ref.piping length		m	100				
Range of usage	Vertical height difference	O/U is higher	m	30				
Range of usage	Vertical height difference	O/U is lower	m	15				
Operating temperature range		Cooling	O/U	-15~43*2				
Operating temperature range		Heating	O/U	-20~20				

The data are measured under the following conditions(ISO-T1).
Cooling:Indoor temp. of 27˚CDB, 19˚CWB, and outdoor temp. of 35˚CDB. Heating:Indoor temp. of 20˚CDB, and outdoor temp. of 7˚CDB, 6˚CWB. External static pressure of indoor units is 60Pa.

*1 : Indicates the value in an anechoic chamber. During operation these values are somewhat higher due to ambient conditions.

*2 : If a cooling operation is conducted when the outdoor air temperature is –5˚C or lower, the outdoor unit should be installed at a place where it is not influenced by natural wind. If wind blows, the low pressure will drop and compressor frequency will increase, this will cause the capacity to drop and may cause the unit to break down.

※ Powerful-Hi can be selected. Sound level: 50ZIXVD 35dB, 60ZIXVD 38dB, 71VNXVD 38dB, 100/125/140VNXVD 41dB, 100/125/140VSXVD 41dB
Air flow: 50ZIXVD 14CMM, 60ZIXVD 18CMM, 71VNXVD 23CMM, 100/125/140VNXVD 34CMM, 100/125/140VSXVD 34CMM

CEILING SUSPENDED

FDEN

FDEN 40/50/60/71/100/125/140VD

Wired remote control

RC-E4
(Option)

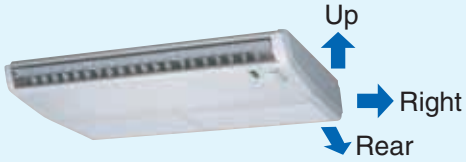
RCH-E3
(Option)

Wireless remote control

RCN-E1R
(Option)

Point 1 Improved installation workability

Increased freedom of a piping layout

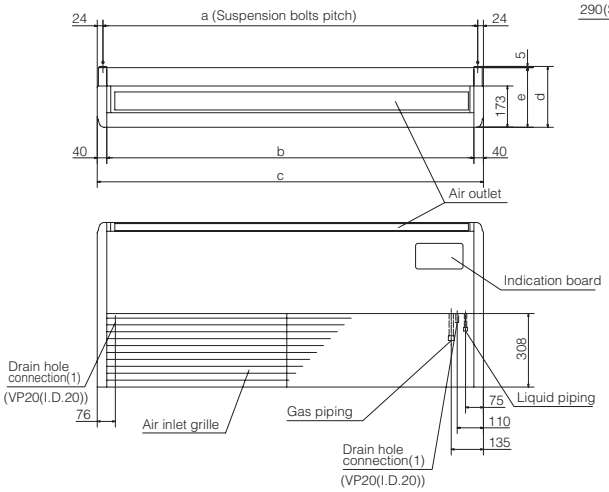


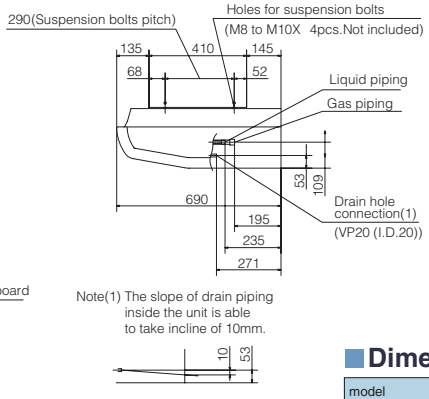
The refrigerant pipe from the unit can be arranged in three directions, rear, right and up. The drain pipe can be arranged in two directions, left and right. This will allow a free layout of piping for various installation conditions. The unit can only be serviced from the bottom.

Point 2 Compact and modern design

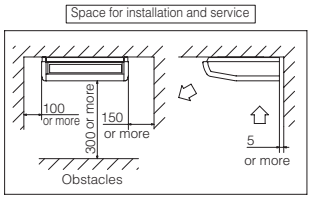
All models fit compactly on ceiling. (Height-210mm or 250mm). Plain, modern design featuring rounded edges gives room a comfortable atmosphere.
FDEN40VD, 50VD weights 30kg the lightest level in the industry. Convenient and quick installation.

Outline drawing (Unit:mm)





Note(1) The slope of drain piping inside the unit is able to take incline of 10mm.



Dimension Table

model	a	b	c	d	e
FDEN40,50	1022	990	1070	215	210
FDEN60,71	1272	1240	1320	215	210
FDEN100~140	1572	1540	1620	255	250

SPECIFICATIONS

				Hyper Inverter				
Set model name				**FDEN40ZIXVD**	**FDEN50ZIXVD**	**FDEN60ZIXVD**	**FDEN71VNXVD**	**FDEN100VNXVD**
Indoor name				FDEN40VD	FDEN50VD	FDEN60VD	FDEN71VD	FDEN100VD
Outdoor name				SRC40ZIX-S	SRC50ZIX-S	SRC60ZIX-S	FDC71VNX	FDC100VNX
Power source				1Phase 220-240V 50Hz, 1Phase 220V 60Hz				
Nominal cooling capacity (Min~Max)		ISO-T1(JIS)	kW	4.0 (1.8~4.7)	5.0 (2.2~5.6)	5.6 (2.8~6.3)	7.1 (3.2~8.0)	10.0 (4.0~11.2)
Nominal heating capacity (Min~Max)		ISO-T1(JIS)	kW	4.5 (2.0~5.4)	5.4 (2.5~6.3)	6.7 (3.1~7.1)	8.0 (3.6~9.0)	11.2 (4.0~12.5)
Power Consumption		Cooling/Heating	kW	1.04/1.13	1.59/1.58	1.95/2.12	2.11/2.11	2.80/2.88
COP		Cooling/Heating		3.85/3.98	3.14/3.42	2.87/3.16	3.36/3.79	3.57/3.89
Energy label		Cooling/Heating		A/A	B/B	C/D	A/A	A/A
Inrush current (Max. running current)			A	5(12)	5(14)		5(17)	5(24)
Sound level*1 ※		Indoor	dB(A)	Hi:39 Me:38 Lo:37		Hi:41 Me:39 Lo:38		Hi:44 Me:41 Lo:39
		Outdoor		47		48	Cooling:51 Heating:48	Cooling:48 Heating:50
Air flow ※		Indoor	CMM	Hi:11 Me:9 Lo:7		Hi:18 Me:14 Lo:12	Hi:18 Me:14 Lo:12	Hi:26 Me:23 Lo:21
		Outdoor		40			Cooling:60 Heating:50	100
Indoor unit	Exterior dimensions	Height x Width x Depth	mm	210x1,070x690		210x1,320x690		250x1,620x690
	Net weight		kg	28		37		49
	Air filter, Q'ty			Pocket Plastic net x2 (Washable)				
	Remote control(option)			Wired:RC-E4, RCH-E3 Wireless:RCN-E1R				
Outdoor unit	Exterior dimensions	Height x Width x Depth	mm	640x800(+71)x290			750x880(+88)x340	1,300x970x370
	Net weight		kg	43			60	105
	Type of compressor			Scroll			Rotary	
	Ref.amount precharged		kg(m)	1.4(15)			2.95(30)	4.5(30)
	Ref.piping size	Liquid/Gas	ø	6.35/12.7			9.52/15.88	
Range of usage	Ref.piping length		m	30			50	
	Vertical height difference	O/U is higher	m	20			30	
		O/U is lower	m	20			15	
Operating temperature range		Cooling	O/U	-15~43*2				
		Heating	O/U	-15~20			-20~20	

SPECIFICATIONS

				Hyper Inverter				
Set model name				**FDEN125VNXVD**	**FDEN140VNXVD**	**FDEN100VSXVD**	**FDEN125VSXVD**	**FDEN140VSXVD**
Indoor name				FDEN125VD	FDEN140VD	FDEN100VD	FDEN125VD	FDEN140VD
Outdoor name				FDC125VNX	FDC140VNX	FDC100VSX	FDC125VSX	FDC140VSX
Power source				1Phase 220-240V 50Hz, 1Phase 220V 60Hz			3Phase 380-415V 50Hz, 3Phase 380V 60Hz	
Nominal cooling capacity (Min~Max)		ISO-T1(JIS)	kW	12.5 (5.0~14.0)	14.0 (5.0~16.0)	10.0 (4.0~11.2)	12.5 (5.0~14.0)	14.0 (5.0~16.0)
Nominal heating capacity (Min~Max)		ISO-T1(JIS)	kW	14.0 (4.0~17.0)	16.0 (4.0~18.0)	11.2 (4.0~16.0)	14.0 (4.0~18.0)	16.0 (4.0~20.0)
Power Consumption		Cooling/Heating	kW	3.86/3.77	4.98/4.69	2.80/2.88	3.86/3.77	4.98/4.69
COP		Cooling/Heating		3.24/3.71	2.81/3.41	3.57/3.89	3.24/3.71	2.81/3.41
Energy label		Cooling/Heating		A/A	C/B	A/A	A/A	C/B
Inrush current (Max. running current)			A	5(26)		5(15)		
Sound level*1 ※		Indoor	dB(A)	Hi:46 Me:44 Lo:43		Hi:44 Me:41 Lo:39	Hi:46 Me:44 Lo:43	
		Outdoor		Cooling:48 Heating:50	Cooling:49 Heating:52	Cooling:48 Heating:50	Cooling:48 Heating:50	Cooling:49 Heating:52
Air flow ※		Indoor	CMM	Hi:29 Me:26 Lo:23		Hi:26 Me:23 Lo:21	Hi:29 Me:26 Lo:23	
		Outdoor		100				
Indoor unit	Exterior dimensions	Height x Width x Depth	mm	250x1,620x690				
	Net weight		kg	49				
	Air filter, Q'ty			Pocket Plastic net x2 (Washable)				
	Remote control(option)			Wired:RC-E4, RCH-E3 Wireless:RCN-E1R				
Outdoor unit	Exterior dimensions	Height x Width x Depth	mm	1,300x970x370				
	Net weight		kg	105				
	Type of compressor			Rotary				
	Ref.amount precharged		kg(m)	4.5(30)				
	Ref.piping size	Liquid/Gas	ø	9.52/15.88				
Range of usage	Ref.piping length		m	100		50	100	
	Vertical height difference	O/U is higher	m	30				
		O/U is lower	m	15				
Operating temperature range		Cooling	O/U	-15~43*2				
		Heating	O/U	-20~20				

The data are measured under the following conditions(ISO-T1).
Cooling:Indoor temp. of 27˚CDB, 19˚CWB, and outdoor temp. of 35˚CDB.
Heating:Indoor temp. of 20˚CDB, and outdoor temp. of 7˚CDB, 6˚CWB.
*1 : Indicates the value in an anechoic chamber. During operation these values are somewhat higher due to ambient conditions.
*2 : If a cooling operation is conducted when the outdoor air temperature is –5˚C or lower, the outdoor unit should be installed at a place where it is not influenced by natural wind. If wind blows, the low pressure will drop and compressor frequency will increase, this will cause the capacity to drop and may cause the unit to break down.

※ Powerful-Hi can be selected. Sound level: 40/50ZIXVD 46dB, 60ZIXVD 50dB, 71VNXVD 50dB, 100VNXVD 46dB, 125/140VNXVD 50dB, 100VSXVD 46dB, 125/140VSXVD 50dB
Air flow: 40/50ZIXVD 13CMM, 60ZIXVD 22CMM, 71VNXVD 22CMM, 100VNXVD 28CMM, 125/140VNXVD 32CMM, 100VSXVD 28CMM, 125/140VSXVD 32CMM

CEILING CASSETTE -4way-

FDT

FDT 100/125/140VD

Wired remote control

RC-E4
(Option)

RCH-E3
(Option)

Wireless remote control

RCN-T-36W-E
(Option)

SPECIFICATIONS

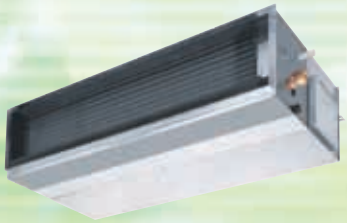
				Micro Inverter					
Set model name				FDT100VNVD	FDT125VNVD	FDT140VNVD	FDT100VSVD	FDT125VSVD	FDT140VSVD
Indoor name				FDT100VD	FDT125VD	FDT140VD	FDT100VD	FDT125VD	FDT140VD
Outdoor name				FDC100VN	FDC125VN	FDC140VN	FDC100VS	FDC125VS	FDC140VS
Power source				1Phase 220-240V 50Hz, 1Phase 220V 60Hz			3Phase 380-415V 50Hz, 3Phase 380V 60Hz		
Nominal cooling capacity (Min~Max)	ISO-T1(JIS)		kW	10.0 (4.0~11.2)	12.5 (5.0~14.0)	14.0 (5.0~14.5)	10.0 (4.0~11.2)	12.5 (5.0~14.0)	14.0 (5.0~14.5)
Nominal heating capacity (Min~Max)	ISO-T1(JIS)		kW	11.2 (4.0~12.5)	14.0 (4.0~16.0)	16.0 (4.0~16.5)	11.2 (4.0~12.5)	14.0 (4.0~16.0)	16.0 (4.0~16.5)
Power Consumption	Cooling/Heating		kW	2.76/2.74	4.05/3.77	4.98/4.57	2.76/2.74	4.05/3.77	4.98/4.57
COP	Cooling/Heating			3.62/4.09	3.09/3.71	2.81/3.50	3.62/4.09	3.09/3.71	2.81/3.50
Energy label	Cooling/Heating			A/A	B/A	C/B	A/A	B/A	C/B
Inrush current (Max. running current)			A	5(24)			5(15)		
Sound level *1 ※	Indoor		dB(A)	Hi:40 Me:37 Lo:35	Hi:42 Me:40 Lo:37	Hi:43 Me:41 Lo:38	Hi:40 Me:37 Lo:35	Hi:42 Me:40 Lo:37	Hi:43 Me:41 Lo:38
	Outdoor			49	Cooling:50 Heating:51	51	49	Cooling:50 Heating:51	51
Air flow ※	Indoor		CMM	Hi:27 Me:24 Lo:20	Hi:30 Me:27 Lo:23	Hi:30 Me:27 Lo:23	Hi:27 Me:24 Lo:20	Hi:30 Me:27 Lo:23	Hi:30 Me:27 Lo:23
	Outdoor			Cooling:75 Heating:73			Cooling:75 Heating:73		
Indoor unit	Exterior dimensions	Height x Width x Depth	mm	Unit:298x840x840 Panel:35x950x950					
	Net weight		kg	32.5(Unit:27 Panel:5.5)					
	Panel	Unit+Panel		T-PSA-3AW-E					
	Air filter, Q'ty			Pocket Plastic net x1 (Washable)					
	Remote control(option)			Wired:RC-E4, RCH-E3 Wireless:RCN-T-36W-E					
Outdoor unit	Exterior dimensions	Height x Width x Depth	mm	845x970x370					
	Net weight		kg	81			83		
	Type of compressor			Rotary					
	Ref.amount precharged		kg(m)	3.8(30)					
	Ref.piping size	Liquid/Gas	ø	9.52/15.88					
Range of usage	Ref.piping length		m	50					
	Vertical height difference	O/U is higher	m	30					
		O/U is lower	m	15					
Operating temperature range		Cooling	O/U	-15~43*2					
		Heating	O/U	-20~20					

The data are measured under the following conditions(ISO-T1).
Cooling:Indoor temp. of 27˚CDB, 19˚CWB, and outdoor temp. of 35˚CDB. Heating:Indoor temp. of 20˚CDB, and outdoor temp. of 7˚CDB, 6˚CWB.
*1 : Indicates the value in an anechoic chamber. During operation these values are somewhat higher due to ambient conditions.
*2 : If a cooling operation is conducted when the outdoor air temperature is –5˚C or lower, the outdoor unit should be installed at a place where it is not influenced by natural wind. If wind blows, the low pressure will drop and compressor frequency will increase, this will cause the capacity to drop and may cause the unit to break down.

※ Powerful-Hi can be selected. Sound level: 100/125/140VNVD 51dB, 100/125/140VSVD 51dB
Air flow: 100/125/140VNVD 37CMM, 100/125/140VSVD 37CMM

DUCT CONNECTED -High Static pressure-

FDU



FDU 100/125/140VD

Wired remote control

RC-E4 (Option)　RCH-E3 (Option)

FDU 200/250VD

Wireless remote control

RCN-KIT3-E (Option)

Fan control kit (100~200Pa)

U-FCRA [For 200/250VD] (option)

SPECIFICATIONS

*Not available in 60Hz

				Micro Inverter	
Set model name				*FDU100VNVD	*FDU125VNVD
Indoor name				FDU100VD	FDU125VD
Outdoor name				FDC100VN	FDC125VN
Power source				1Phase 220-240V 50Hz	
Nominal cooling capacity (Min~Max)	ISO-T1(JIS)		kW	10.0 (4.0~11.2)	12.5 (5.0~14.0)
Nominal heating capacity (Min~Max)	ISO-T1(JIS)		kW	11.2 (4.0~12.5)	14.0 (4.0~16.0)
Power Consumption	Cooling/Heating		kW	2.88/2.99	4.04/3.79
COP	Cooling/Heating			3.47/3.75	3.09/3.69
Energy label	Cooling/Heating			A/A	B/A
Inrush current (Max. running current)			A	5(25)	5(27)
Sound level*1	Indoor		dB(A)	Hi:42 Lo:37	Hi:43 Lo:38
	Outdoor			49	Cooling:50 Heating:51
Air flow	Indoor		CMM	Hi:34 Lo:27	Hi:42 Lo:33.5
	Outdoor			Cooling:75 Heating:73	
External static pressure			Pa	Standard:50, Max:130	
Indoor unit: Exterior dimensions	Height x Width x Depth		mm	350x1,370x650	
Indoor unit: Net weight			kg	63	
Indoor unit: Air filter, Q'ty				Procure locally	
Indoor unit: Remote control(option)				Wired:RC-E4, RCH-E3 Wireless:RCN-KIT3-E	
Outdoor unit: Exterior dimensions	Height x Width x Depth		mm	845x970x370	
Outdoor unit: Net weight			kg	81	
Outdoor unit: Type of compressor				Rotary	
Outdoor unit: Ref.amount precharged			kg(m)	3.8(30)	
Outdoor unit: Ref.piping size	Liquid/Gas		ø	9.52/15.88	
Range of usage: Ref.piping length			m	50	
Range of usage: Vertical height difference	O/U is higher		m	30	
	O/U is lower		m	15	
Operating temperature range	Cooling		O/U	-15~43*3	-15~43*2
	Heating		O/U	-20~20	

SPECIFICATIONS

				Micro Inverter					
Set model name				*FDU140VNVD	*FDU100VSVD	*FDU125VSVD	*FDU140VSVD	FDU200VSVD	FDU250VSVD
Indoor name				FDU140VD	FDU100VD	FDU125VD	FDU140VD	FDU200VD	FDU250VD
Outdoor name				FDC140VN	FDC100VS	FDC125VS	FDC140VS	FDC200VS	FDC250VS
Power source				1Phase 220-240V 50Hz	3Phase 380-415V 50Hz			3Phase 380-415V 50Hz, 3Phase 380V 60Hz	
Nominal cooling capacity (Min~Max)	ISO-T1(JIS)		kW	14.0 (5.0~14.5)	10.0 (4.0~11.2)	12.5 (5.0~14.0)	14.0 (5.0~14.5)	20.0 (7.0~22.4)	25.0 (10.0~28.0)
Nominal heating capacity (Min~Max)	ISO-T1(JIS)		kW	16.0 (4.0~16.5)	11.2 (4.0~12.5)	14.0 (4.0~16.0)	16.0 (4.0~16.5)	22.4 (7.6~25.0)	28.0 (9.5~31.5)
Power Consumption	Cooling/Heating		kW	4.95/4.43	2.88/2.99	4.04/3.79	4.95/4.43	50Hz:6.59/6.08	50Hz: 9.91/8.50
								60Hz:6.58/5.84	60Hz:10.21/8.22
COP	Cooling/Heating			2.83/3.61	3.47/3.75	3.09/3.69	2.83/3.61	50Hz:3.03/3.68	50Hz:2.52/3.29
								60Hz:3.04/3.83	60Hz:2.45/3.41
Energy label	Cooling/Heating			C/A	A/A	B/A	C/A	B/A	50Hz:E/C 60Hz:E/B
Inrush current (Max. running current)			A	5(28)	5(16)	5(18)	5(19)	5(24)	5(27)
Sound level*1	Indoor		dB(A)	Hi:43 Lo:38	Hi:42 Lo:37	Hi:43 Lo:38		51	52
	Outdoor			51	49	Cooling:50 Heating:51	51	57	Cooling:57 Heating:58
Air flow	Indoor		CMM	Hi:42 Lo:33.5	Hi:34 Lo:27	Hi:42 Lo:33.5		50Hz:51, 60Hz:60	50Hz:68, 60Hz:80
	Outdoor			Cooling:75 Heating:73				Cooling:150 Heating:145	
External static pressure *2			Pa	Standard:50, Max:130				Standard:100, Max:200	
Indoor unit: Exterior dimensions	Height x Width x Depth		mm	350x1,370x650				360x1,570x830	
Indoor unit: Net weight			kg	63				92	
Indoor unit: Air filter, Q'ty				Procure locally					
Indoor unit: Remote control(option)				Wired:RC-E4, RCH-E3 Wireless:RCN-KIT3-E					
Outdoor unit: Exterior dimensions	Height x Width x Depth		mm	845x970x370				1,300x970x370	
Outdoor unit: Net weight			kg	81	83			122	140
Outdoor unit: Type of compressor				Rotary				Scroll	
Outdoor unit: Ref.amount precharged			kg(m)	3.8(30)				5.4(30)	7.2(30)
Outdoor unit: Ref.piping size	Liquid/Gas		ø	9.52/15.88				9.52/25.4	12.7/25.4
Range of usage: Ref.piping length			m	50				70	
Range of usage: Vertical height difference	O/U is higher		m	30					
	O/U is lower		m	15					
Operating temperature range	Cooling		O/U	-15~43 *3					
	Heating		O/U	-20~20				-15~20	

The data are measured under the following conditions(ISO-T1).
Cooling:Indoor temp. of 27˚CDB, 19˚CWB, and outdoor temp. of 35˚CDB. Heating:Indoor temp. of 20˚CDB, and outdoor temp. of 7˚CDB, 6˚CWB. External static pressure of FDU100/125/140 is 60Pa and that of FDU200/250 is 100Pa.

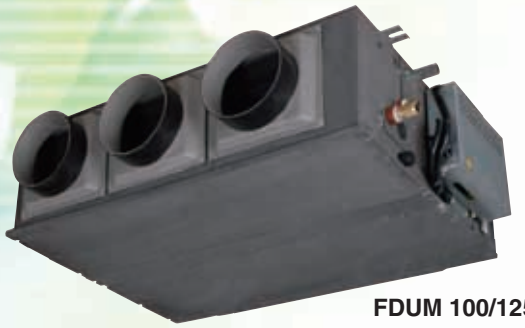
*1 : Indicates the value in an anechoic chamber. During operation these values are somewhat higher due to ambient conditions.

*2 : External static pressure is changeable to be set by the remote control. Standard external static pressure is factory setting. MAX external static pressure is "High static pressure" setting. The values of sound pressure level become 5dB(A) higher at eternal static pressure of 130Pa.

*3 : If a cooling operation is conducted when the outdoor air temperature is –5˚C or lower, the outdoor unit should be installed at a place where it is not influenced by natural wind. If wind blows, the low pressure will drop and compressor frequency will increase, this will cause the capacity to drop and may cause the unit to break down.

DUCT CONNECTED -Low/Middle Static pressure-

FDUM



FDUM 100/125/140VD

external static pressure loss:5pa

Filter kit
UM-FL3E : for 100, 125, 140
(option)

Wired remote control

RC-E4
(Option)

RCH-E3
(Option)

Wireless remote control

RCN-KIT3-E
(Option)

SPECIFICATIONS

				Micro Inverter					
Set model name				FDUM100VNVD	FDUM125VNVD	FDUM140VNVD	FDUM100VSVD	FDUM125VSVD	FDUM140VSVD
Indoor name				FDUM100VD	FDUM125VD	FDUM140VD	FDUM100VD	FDUM125VD	FDUM140VD
Outdoor name				FDC100VN	FDC125VN	FDC140VN	FDC100VS	FDC125VS	FDC140VS
Power source				1Phase 220-240V 50Hz, 1Phase 220V 60Hz			3Phase 380-415V 50Hz, 3Phase 380V 60Hz		
Nominal cooling capacity (Min~Max)	ISO-T1(JIS)		kW	10.0 (4.0~11.2)	12.5 (5.0~14.0)	14.0 (5.0~14.5)	10.0 (4.0~11.2)	12.5 (5.0~14.0)	14.0 (5.0~14.5)
Nominal heating capacity (Min~Max)	ISO-T1(JIS)		kW	11.2 (4.0~12.5)	14.0 (4.0~16.0)	16.0 (4.0~16.5)	11.2 (4.0~12.5)	14.0 (4.0~16.0)	16.0 (4.0~16.5)
Power Consumption	Cooling/Heating		kW	50Hz:2.80/2.77	50Hz:4.03/3.80	50Hz:4.95/4.89	50Hz:2.80/2.77	50Hz:4.03/3.80	50Hz:4.95/4.89
				60Hz:2.80/2.80	60Hz:4.03/3.85	60Hz:4.95/4.91	60Hz:2.80/2.80	60Hz:4.03/3.85	60Hz:4.95/4.91
COP	Cooling/Heating			50Hz:3.57/4.04	50Hz:3.10/3.68	50Hz:2.83/3.27	50Hz:3.57/4.04	50Hz:3.10/3.68	50Hz:2.83/3.27
				60Hz:3.57/4.00	60Hz:3.10/3.64	60Hz:2.83/3.26	60Hz:3.57/4.00	60Hz:3.10/3.64	60Hz:2.83/3.26
Energy label	Cooling/Heating			A/A	B/A	C/C	A/A	B/A	C/C
Inrush current (Max. running current)			A	5(24)			5(15)		
Sound level*1 ※	Indoor		dB(A)	Hi:37 Me:35 Lo:32	Hi:38 Me:36 Lo:33		Hi:37 Me:35 Lo:32	Hi:38 Me:36 Lo:33	
	Outdoor			49	Cooling:50 Heating:51	51	49	Cooling:50 Heating:51	51
Air flow ※	Indoor		CMM	Hi:28 Me:25 Lo:22					
	Outdoor			Cooling:75 Heating:73					
Static pressure			Pa	Standard:60, Max:90/100	Standard:60/55, Max:85/100		Standard:60, Max:90/100	Standard:60/55, Max:85/100	
Indoor unit: Exterior dimensions		Height x Width x Depth	mm	350x1,370x635					
Indoor unit: Net weight			kg	59					
Indoor unit: Air filter, Q'ty				Procure locally					
Indoor unit: Remote control(option)				Wired:RC-E4, RCH-E3 Wireless:RCN-KIT3-E					
Outdoor unit: Exterior dimensions		Height x Width x Depth	mm	845x970x370					
Outdoor unit: Net weight			kg	81			83		
Outdoor unit: Type of compressor				Rotary					
Outdoor unit: Ref.amount precharged			kg(m)	3.8(30)					
Outdoor unit: Ref.piping size		Liquid/Gas	ø	9.52/15.88					
Range of usage: Ref.piping length			m	50					
Range of usage: Vertical height difference		O/U is higher	m	30					
Range of usage: Vertical height difference		O/U is lower	m	15					
Operating temperature range	Cooling		O/U	-15~43*2					
Operating temperature range	Heating		O/U	-20~20					

The data are measured under the following conditions(ISO-T1).
Cooling:Indoor temp. of 27˚CDB, 19˚CWB, and outdoor temp. of 35˚CDB. Heating:Indoor temp. of 20˚CDB, and outdoor temp. of 7˚CDB, 6˚CWB. External static pressure of indoor units is 60Pa.

*1 : Indicates the value in an anechoic chamber. During operation these values are somewhat higher due to ambient conditions.

*2 : If a cooling operation is conducted when the outdoor air temperature is –5˚C or lower, the outdoor unit should be installed at a place where it is not influenced by natural wind. If wind blows, the low pressure will drop and compressor frequency will increase, this will cause the capacity to drop and may cause the unit to break down.

※ Powerful-Hi can be selected. Sound level: 100/125/140VNVD 41dB, 100/125/140VSVD 41dB
Air flow: 100/125/140VNVD 34CMM, 100/125/140VSVD 34CMM

CEILING SUSPENDED

FDEN

FDEN 100/125/140VD

Wired remote control

RC-E4
(Option)

RCH-E3
(Option)

Wireless remote control

RCN-E1R
(Option)

SPECIFICATIONS

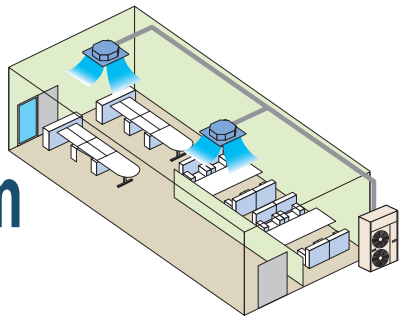
				Micro Inverter					
Set model name				FDEN100VNVD	FDEN125VNVD	FDEN140VNVD	FDEN100VSVD	FDEN125VSVD	FDEN140VSVD
Indoor name				FDEN100VD	FDEN125VD	FDEN140VD	FDEN100VD	FDEN125VD	FDEN140VD
Outdoor name				FDC100VN	FDC125VN	FDC140VN	FDC100VS	FDC125VS	FDC140VS
Power source				1Phase 220-240V 50Hz, 1Phase 220V 60Hz			3Phase 380-415V 50Hz, 3Phase 380V 60Hz		
Nominal cooling capacity (Min~Max)	ISO-T1(JIS)		kW	10.0 (4.0~11.2)	12.5 (5.0~14.0)	14.0 (5.0~14.5)	10.0 (4.0~11.2)	12.5 (5.0~14.0)	14.0 (5.0~14.5)
Nominal heating capacity (Min~Max)	ISO-T1(JIS)		kW	11.2 (4.0~12.5)	14.0 (4.0~16.0)	16.0 (4.0~16.5)	11.2 (4.0~12.5)	14.0 (4.0~16.0)	16.0 (4.0~16.5)
Power Consumption	Cooling/Heating		kW	2.85/2.97	4.45/4.08	5.80/4.92	2.85/2.97	4.45/4.08	5.80/4.92
COP	Cooling/Heating			3.51/3.77	2.80/3.43	2.41/3.25	3.51/3.77	2.80/3.43	2.41/3.25
Energy label	Cooling/Heating			A/A	C/B	E/C	A/A	C/B	E/C
Inrush current (Max. running current)			A	5(24)			5(15)		
Sound level *1 ※	Indoor		dB(A)	Hi:44 Me:41 Lo:39	Hi:46 Me:44 Lo:43		Hi:41 Me:41 Lo:39	Hi:46 Me:44 Lo:43	
	Outdoor			49	Cooling:50 Heating:51	51	49	Cooling:50 Heating:51	51
Air flow ※	Indoor		CMM	Hi:26 Me:23 Lo:21	Hi:29 Me:26 Lo:23		Hi:26 Me:23 Lo:21	Hi:29 Me:26 Lo:23	
	Outdoor			Cooling:75 Heating:73					
Indoor unit: Exterior dimensions	Height x Width x Depth		mm	250x1,620x690					
Indoor unit: Net weight			kg	49					
Indoor unit: Air filter, Q'ty				Pocket Plastic net x2 (Washable)					
Indoor unit: Remote control(option)				Wired:RC-E4, RCH-E3 Wireless:RCN-E1R					
Outdoor unit: Exterior dimensions	Height x Width x Depth		mm	845x970x370					
Outdoor unit: Net weight			kg	81			83		
Outdoor unit: Type of compressor				Rotary					
Outdoor unit: Ref.amount precharged			kg(m)	3.8(30)					
Outdoor unit: Ref.piping size	Liquid/Gas		ø	9.52/15.88					
Range of usage: Ref.piping length			m	50					
Range of usage: Vertical height difference	O/U is higher		m	30					
Range of usage: Vertical height difference	O/U is lower		m	15					
Operating temperature range	Cooling		O/U	-15~43*2					
Operating temperature range	Heating		O/U	-20~20					

The data are measured under the following conditions(ISO-T1).
Cooling:Indoor temp. of 27˚CDB, 19˚CWB, and outdoor temp. of 35˚CDB.
Heating:Indoor temp. of 20˚CDB, and outdoor temp. of 7˚CDB, 6˚CWB.
*1 : Indicates the value in an anechoic chamber. During operation these values are somewhat higher due to ambient conditions.
*2 : If a cooling operation is conducted when the outdoor air temperature is –5˚C or lower, the outdoor unit should be installed at a place where it is not influenced by natural wind. If wind blows, the low pressure will drop and compressor frequency will increase, this will cause the capacity to drop and may cause the unit to break down.

※ Powerful-Hi can be selected. Sound level: 100VNVD 46dB, 125/140VNVD 50dB, 100VSVD 46dB, 125/140VSVD 50dB
Air flow: 100VNVD 28CMM, 125/140VNVD 32CMM, 100VSVD 28CMM, 125/140VSVD 32CMM

MULTI SYSTEM

Up to Four indoor units can be connected to a single outdoor unit and simultaneously operated with a single remote control.



Twin / Triple / Double Twin Multi System

By referring to the following table for applicable indoor units, select the same models and capacities.

Applicable indoor units

Model	Capacity						Combination		
	40	50	60	71	100	125	Twin	Triple	Double Twin
4way **FDT**	●	●	●	●	●	●	●	●	●
4way compact (600 x 600mm) **FDTC**	●	●	●				●	●	●
Low/Middle Static pressure **FDUM**		●	●	●	●	●	●	●	
Ceiling Suspended **FDEN**	●	●	●	●	●	●	●	●	●
Wall Mounted **SRK** Only used with outdoor units of Multi System		●	●				●	●	

Combination of indoor units

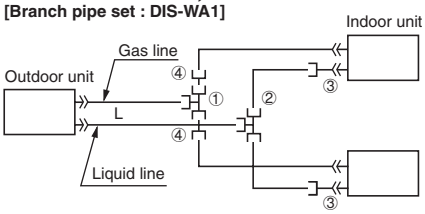
Outdoor Unit	Hyper Inverter				Micro Inverter				
	FDC71VNX	FDC100VNX FDC100VSX	FDC125VNX FDC125VSX	FDC140VNX FDC140VSX	FDC100VNV FDC100VSV	FDC125VNV FDC125VSV	FDC140VNV FDC140VSV	FDC200VSV	FDC250VSV
Twin	40 + 40	50 + 50	60 + 60	71 + 71	50 + 50	60 + 60	71 + 71	100 + 100	125 + 125
Triple				50 + 50 + 50			50 + 50 + 50	71 + 71 + 71	
Double Twin								50+50+50+50	60+60+60+60

Decision of piping specification

Diagrams below show the application as samples. For further information, refer to TECHNICAL MANUAL.

Twin type

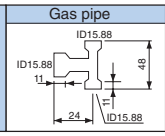
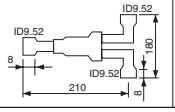
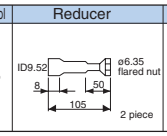
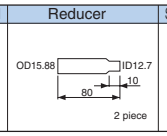
Models FDC71VNX, FDC100~140VNV/VSV
[Branch pipe set : DIS-WA1]



(Example)

Model \ Item	Indoor unit combinations	Liquid pipe		Gas pipe	
		Main pipe	Branch pipe	Main pipe	Branch pipe
FDC71	40+40	ø9.52Xt0.8	ø9.52Xt0.8	ø15.88Xt1.0	ø12.7Xt0.8
FDC100	50+50				
FDC125	60+60				ø15.88Xt1.0
FDC140	71+71				

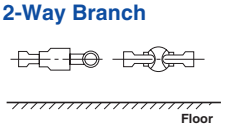
Notes (1) When 40-60 models of indoor units are applied to this combination, the reducer ③ supplied with the branch piping set should be used in order to reduce the liquid piping size from ø9.52mm to ø6.35mm at indoor unit side (flare connection). Accordingly be sure to select the liquid piping size ø9.52mm from branch to indoor unit.
(2) The reducer ④ is for FDC71 and 100 models only.

Chart of shapes of branch piping parts (DIS-WA1)	Gas pipe	Symbol	Liquid pipe	Symbol	Reducer	Symbol	Reducer	Symbol
		①		②		③		④

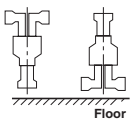
Notes (1) Symbol ① to ④ in the drawing shows the symbols of branch piping parts in the chart respectively.
(2) Branch piping should always be arranged to have level or perpendicular position.

The branch piping (both gas and liquid lines) should always be arranged to have a level or perpendicular position.

2-Way Branch

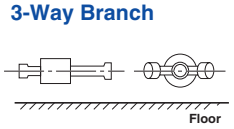


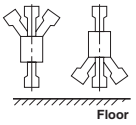
Mount —·— sections level with the floor.



Mount —·— sections perpendicular to the floor.

3-Way Branch

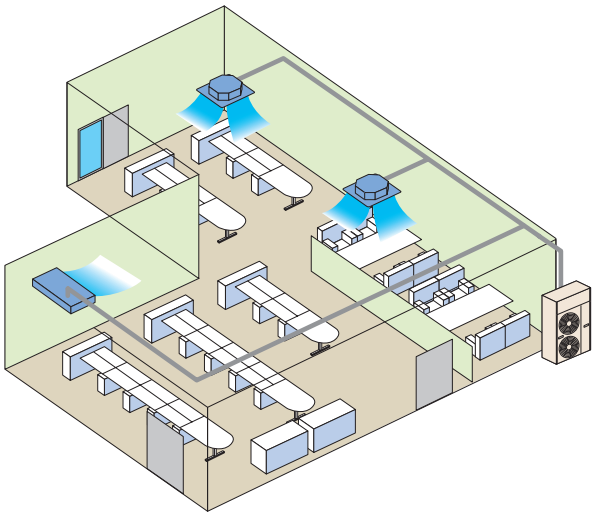




Ideal for the installation in large area and L-shaped rooms, the V Multi System has an extensive degree of flexibility in the selection of indoor units. Specifically, the selection of indoor units with different capacities in different types can be made.

V Multi System

Different models and capacities can be selected.

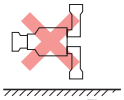


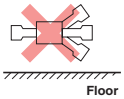
Applicable indoor units

Model \ Capacity	40	50	60	71	100	125
4way **FDT**	●	●	●	●	●	●
Ceiling Suspended **FDEN**	●	●	●	●	●	●

Combination of indoor units

Outdoor Unit		NEW				
Hyper Inverter	FDC71VNX	FDC100VNX FDC100VSX	FDC125VNX FDC125VSX	FDC140VNX FDC140VSX	——	——
Micro Inverter	——	FDC100VNV FDC100VSV	FDC125VNV FDC125VSV	FDC140VNV FDC140VSV	FDC200VSV	FDC250VSV
Twin	40 + 40	50 + 50	60 + 60 50 + 71	71 + 71	100 + 100 71 + 125	125 + 125
Triple				50 + 50 + 50	71 + 71 + 71	60 + 60 + 125 71 + 71 + 100
Double Twin					50+50+50+50	60+60+60+60

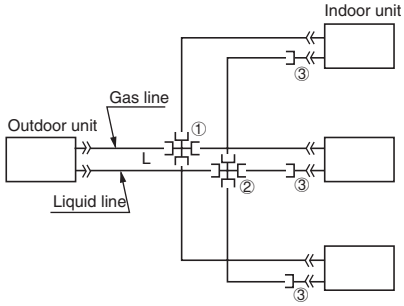

Floor


Floor

Triple type

The indoor_outdoor piping length differences among indoor units are less than 3m.

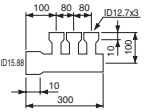
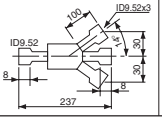
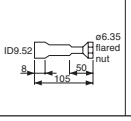
Model FDC140VNV/VSV
[Branch pipe set : DIS-TA1]



(Example)

Item / Model	Indoor unit combinations	Liquid pipe		Gas pipe	
		Main pipe	Branch pipe	Main pipe	Branch pipe
FDC140	50+50+50	ø9.52Xt0.8	ø9.52Xt0.8	ø15.88Xt1.0	ø12.7Xt0.8

Notes (1) The reducer ③ supplied with the branch piping set should be used in order to reduce the liquid piping size from ø9.52mm to ø6.35mm at indoor unit side (flare connection). Accordingly be sure to select the liquid piping size ø9.52mm from branch to indoor unit.

Chart of shapes of branch piping parts (DIS-TA1)	Gas pipe	Symbol	Liquid pipe	Symbol	Reducer	Symbol
		①		②		③

Notes (1) Symbol ① to ③ in the drawing shows the symbols of branch piping parts in the chart respectively.
(2) Branch piping should always be arranged to have level or perpendicular position.

CEILING CASSETTE -4way-

FDT

FDT 40/50/60/71/100/125VD

Wired remote control

RC-E4
(Option)

RCH-E3
(Option)

Wireless remote control

RCN-T-36W-E
(Option)

SPECIFICATIONS

The values are for simultaneous Multi operation.

				Hyper Inverter	
Set model name				FDT71VNXPVD	FDT100VNXPVD
				Twin	
Indoor name				FDT40VD	FDT50VD
Outdoor name				FDC71VNX	FDC100VNX
Power source				1Phase 220-240V 50Hz, 1Phase 220V 60Hz	
Nominal cooling capacity (Min~Max)	ISO-T1(JIS)		kW	7.1 (3.2~8.0)	10.0 (4.0~11.2)
Nominal heating capacity (Min~Max)	ISO-T1(JIS)		kW	8.0 (3.6~9.0)	11.2 (4.0~12.5)
Power Consumption	Cooling/Heating		kW	1.85/1.99	2.56/2.66
COP	Cooling/Heating			3.84/4.02	3.91/4.21
Energy label	Cooling/Heating			A/A	A/A
Inrush current (Max. running current)			A	5(17)	5(24)
Sound level*1 ※	Indoor*2		dB(A)	Hi:33 Me:31 Lo:30	
	Outdoor			Cooling:51 Heating:48	Cooling:48 Heating:50
Air flow ※	Indoor*2		CMM	Hi:18 Me:16 Lo:14	
	Outdoor			Cooling:60 Heating:50	100
Indoor unit: Exterior dimensions	Height x Width x Depth		mm	Unit:246x840x840 Panel:35x950x950	
Indoor unit: Net weight	Unit+Panel		kg	27.5(Unit:22 Panel:5.5)	
Indoor unit: Panel				T-PSA-3AW-E	
Indoor unit: Air filter, Q'ty				Pocket Plastic net x1 (Washable)	
Indoor unit: Remote control(option)				Wired:RC-E4, RCH-E3	Wireless:RCN-T-36W-E
Outdoor unit: Exterior dimensions	Height x Width x Depth		mm	750x880(+88)x340	1,300x970x370
Outdoor unit: Net weight			kg	60	105
Outdoor unit: Ref.amount precharged			kg(m)	2.95(30)	4.5(30)
Outdoor unit: Ref.piping size	Liquid/Gas		ø	9.52/15.88	
Range of usage: Ref.piping length			m	50	100
Range of usage: Vertical height difference	O/U is higher		m	30	
Range of usage: Vertical height difference	O/U is lower		m	15	
Operating temperature range	Cooling		O/U	-15~43*3	
Operating temperature range	Heating		O/U	-20~20	

SPECIFICATIONS

The values are for simultaneous Multi operation.

				Hyper Inverter						
Set model name				FDT125VNXPVD	FDT140VNXPVD	FDT140VNXTVD	FDT100VSXPVD	FDT125VSXPVD	FDT140VSXPVD	FDT140VSXTVD
				Twin		Triple	Twin			Triple
Indoor name				FDT60VD	FDT71VD	FDT50VD	FDT50VD	FDT60VD	FDT71VD	FDT50VD
Outdoor name				FDC125VNX	FDC140VNX	FDC140VNX	FDC100VSX	FDC125VSX	FDC140VSX	FDC140VSX
Power source				1Phase 220-240V 50Hz, 1Phase 220V 60Hz			3Phase 380-415V 50Hz, 3Phase 380V 60Hz			
Nominal cooling capacity (Min~Max)	ISO-T1(JIS)		kW	12.5 (5.0~14.0)	14.0 (5.0~16.0)	14.0 (5.0~16.0)	10.0 (4.0~11.2)	12.5 (5.0~14.0)	14.0 (5.0~14.5)	14.0 (5.0~14.5)
Nominal heating capacity (Min~Max)	ISO-T1(JIS)		kW	14.0 (4.0~17.0)	16.0 (4.0~18.0)	16.0 (4.0~18.0)	11.2 (4.0~16.0)	14.0 (4.0~18.0)	16.0 (4.0~20.0)	16.0 (4.0~20.0)
Power Consumption	Cooling/Heating		kW	3.06/3.22	3.88/3.70	3.88/3.76	2.56/2.66	3.06/3.22	3.88/3.70	3.88/3.76
COP	Cooling/Heating			4.08/4.35	3.61/4.32	3.61/4.26	3.91/4.21	4.08/4.35	3.61/4.32	3.61/4.26
Energy label	Cooling/Heating			A/A	A/A	A/A	A/A	A/A	A/A	A/A
Inrush current (Max. running current)			A	5(26)			5(15)			
Sound level*1 ※	Indoor*2		dB(A)	Hi:33 Me:31 Lo:30	Hi:35 Me:33 Lo:31	Hi:33 Me:31 Lo:30	Hi:33 Me:31 Lo:30		Hi:35 Me:33 Lo:31	Hi:33 Me:31 Lo:30
	Outdoor			Cooling:48 Heating:50	Cooling:49 Heating:52		Cooling:48 Heating:50		Cooling:49 Heating:52	
Air flow ※	Indoor*2		CMM	Hi:18 Me:16 Lo:14	Hi:21 Me:19 Lo:17	Hi:18 Me:16 Lo:14	Hi:18 Me:16 Lo:14		Hi:21 Me:19 Lo:17	Hi:18 Me:16 Lo:14
	Outdoor			100						
Indoor unit: Exterior dimensions	Height x Width x Depth		mm	Unit:246x840x840 Panel:35x950x950						
Indoor unit: Net weight	Unit+Panel		kg	29.5(Unit:24 Panel:5.5)		27.5(Unit:22 Panel:5.5)		29.5(Unit:24 Panel:5.5)		27.5(Unit:22 Panel:5.5)
Indoor unit: Panel				T-PSA-3AW-E						
Indoor unit: Air filter, Q'ty				Pocket Plastic net x1 (Washable)						
Indoor unit: Remote control(option)				Wired:RC-E4, RCH-E3 Wireless:RCN-T-36W-E						
Outdoor unit: Exterior dimensions	Height x Width x Depth		mm	1,300x970x370						
Outdoor unit: Net weight			kg	105						
Outdoor unit: Ref.amount precharged			kg(m)	4.5(30)						
Outdoor unit: Ref.piping size	Liquid/Gas		ø	9.52/15.88						
Range of usage: Ref.piping length			m	100						
Range of usage: Vertical height difference	O/U is higher		m	30						
Range of usage: Vertical height difference	O/U is lower		m	15						
Operating temperature range	Cooling		O/U	-15~43*3						
Operating temperature range	Heating		O/U	-20~20						

The data are measured under the following conditions(ISO-T1).
Cooling:Indoor temp. of 27˚CDB, 19˚CWB, and outdoor temp. of 35˚CDB. Heating:Indoor temp. of 20˚CDB, and outdoor temp. of 7˚CDB, 6˚CWB.
*1 : Indicates the value in an anechoic chamber. During operation these values are somewhat higher due to ambient conditions.
*2 : The values are for one indoor unit operation.
*3 : If a cooling operation is conducted when the outdoor air temperature is –5˚C or lower, the outdoor unit should be installed at a place where it is not influenced by natural wind. If wind blows, the low pressure will drop and compressor frequency will increase, this will cause the capacity to drop and may cause the unit to break down.

※ Powerful-Hi can be selected. Sound level: 71/100VNXPVD 39dB, 100VSXPVD 39dB, 125/140VNXPVD 46dB, 125/140VSXPVD 46dB, 140VNXTVD 39dB, 140VSXTVD 39dB
Air flow: 71/100VNXPVD 20CMM, 100VSXPVD 20CMM, 125/140VNXPVD 28CMM, 125/140VSXPVD 28CMM, 140VNXTVD 20CMM, 140VSXTVD 20CMM

SPECIFICATIONS

The values are for simultaneous Multi operation.

				Micro Inverter						
Set model name				FDT100VNPVD	FDT125VNPVD	FDT140VNPVD	FDT140VNTVD	FDT100VSPVD	FDT125VSPVD	FDT140VSPVD
				Twin			Triple	Twin		
Indoor name				FDT50VD	FDT60VD	FDT71VD	FDT50VD	FDT50VD	FDT60VD	FDT71VD
Outdoor name				FDC100VN	FDC125VN	FDC140VN	FDC140VN	FDC100VS	FDC125VS	FDC140VS
Power source				1Phase 220-240V 50Hz, 1Phase 220V 60Hz				3Phase 380-415V 50Hz, 3Phase 380V 60Hz		
Nominal cooling capacity (Min~Max)	ISO-T1(JIS)	kW		10.0 (4.0~11.2)	12.5 (5.0~14.0)	14.0 (5.0~14.5)	14.0 (5.0~14.5)	10.0 (4.0~11.2)	12.5 (5.0~14.0)	14.0 (5.0~14.5)
Nominal heating capacity (Min~Max)	ISO-T1(JIS)	kW		11.2 (4.0~12.5)	14.0 (4.0~16.0)	16.0 (4.0~16.5)	16.0 (4.0~16.5)	11.2 (4.0~12.5)	14.0 (4.0~16.0)	16.0 (4.0~16.5)
Power Consumption	Cooling/Heating	kW		2.94/3.09	3.95/3.70	4.51/4.58	4.65/4.63	2.94/3.09	3.95/3.70	4.51/4.58
COP	Cooling/Heating			3.40/3.62	3.16/3.78	3.10/3.49	3.01/3.46	3.40/3.62	3.16/3.78	3.10/3.49
Energy label	Cooling/Heating			A/A	B/A	B/B	B/B	A/A	B/A	B/B
Inrush current (Max. running current)		A		5(24)				5(15)		
Sound level *1 ※	Indoor*2	dB(A)		Hi:33 Me:31 Lo:30	Hi:33 Me:31 Lo:30	Hi:35 Me:33 Lo:31	Hi:33 Me:31 Lo:30	Hi:33 Me:31 Lo:30	Hi:33 Me:31 Lo:30	Hi:35 Me:33 Lo:31
	Outdoor			49	Cooling:50 Heating:51	51		49	Cooling:50 Heating:51	51
Air flow ※	Indoor*2	CMM		Hi:18 Me:16 Lo:14		Hi:21 Me:19 Lo:17	Hi:18 Me:16 Lo:14	Hi:18 Me:16 Lo:14		Hi:21 Me:19 Lo:17
	Outdoor			Cooling:75 Heating:73						
Indoor unit: Exterior dimensions	Height x Width x Depth	mm		Unit:246x840x840 Panel:35x950x950						
Indoor unit: Net weight	Unit+Panel	kg		27.5(Unit:22 Panel:5.5)	29.5(Unit:24 Panel:5.5)		27.5(Unit:22 Panel:5.5)		29.5(Unit:24 Panel:5.5)	
Indoor unit: Panel				T-PSA-3AW-E						
Indoor unit: Air filter, Q'ty				Pocket Plastic net x1 (Washable)						
Indoor unit: Remote control(option)				Wired:RC-E4, RCH-E3 Wireless:RCN-T-36W-E						
Outdoor unit: Exterior dimensions				845x970x370						
Outdoor unit: Net weight			kg	81				83		
Outdoor unit: Ref.amount precharged			kg(m)	3.8(30)						
Outdoor unit: Ref.piping size	Liquid/Gas		ø	9.52/15.88						
Range of usage: Ref.piping length			m	50						
Range of usage: Vertical height difference	O/U is higher		m	30						
Range of usage: Vertical height difference	O/U is lower		m	15						
Operating temperature range	Cooling	O/U		-15~43*3						
Operating temperature range	Heating	O/U		-20~20						

※ Powerful-Hi can be selected. Sound level: 100VNPVD 39dB, 125/140VNPVD 46dB, 140VNTVD 39dB, 100VSPVD 39dB, 125/140VSPVD 46dB
Air flow: 100VNPVD 20CMM, 125/140VNPVD 28CMM, 140VNTVD 20CMM, 100VSPVD 20CMM, 125/140VSPVD 28CMM

SPECIFICATIONS

The values are for simultaneous Multi operation.

				Micro Inverter					
Set model name				FDT200VSPVD	FDT250VSPVD	FDT140VSTVD	FDT200VSTVD	FDT200VSDVD	FDT250VSDVD
				Twin		Triple		Double Twin	
Indoor name				FDT100VD	FDT125VD	FDT50VD	FDT71VD	FDT50VD	FDT60VD
Outdoor name				FDC200VS	FDC250VS	FDC140VS	FDC200VS	FDC200VS	FDC250VS
Power source				3Phase 380-415V 50Hz, 3Phase 380V 60Hz					
Nominal cooling capacity (Min~Max)	ISO-T1(JIS)	kW		20.0 (7.0~22.4)	25.0 (10.0~28.0)	14.0 (5.0~14.5)	20.0 (7.0~22.4)	20.0 (7.0~22.4)	25.0 (10.0~28.0)
Nominal heating capacity (Min~Max)	ISO-T1(JIS)	kW		22.4 (7.6~25.0)	28.0 (9.5~31.5)	16.0 (4.0~16.5)	22.4 (7.6~25.0)	22.4 (7.6~25.0)	28.0 (9.5~31.5)
Power Consumption	Cooling/Heating	kW		6.58/6.02	8.30/7.75	4.65/4.63	6.49/6.12	6.58/6.15	8.28/7.70
COP	Cooling/Heating			3.04/3.72	3.01/3.61	3.01/3.46	3.08/3.66	3.04/3.64	3.02/3.64
Energy label	Cooling/Heating			B/A	B/A	B/B	B/A	B/A	B/A
Inrush current (Max. running current)		A		5(19)	5(22)	5(15)	5(19)	5(19)	5(22)
Sound level *1 ※	Indoor*2	dB(A)		Hi:40 Me:37 Lo:35	Hi:42 Me:40 Lo:37	Hi:33 Me:31 Lo:30	Hi:35 Me:33 Lo:31	Hi:33 Me:31 Lo:30	Hi:33 Me:31 Lo:30
	Outdoor			57	Cooling:57 Heating:58	51	57	57	Cooling:57 Heating:58
Air flow ※	Indoor*2	CMM		Hi:27 Me:24 Lo:20	Hi:30 Me:27 Lo:23	Hi:18 Me:16 Lo:14	Hi:21 Me:19 Lo:17	Hi:18 Me:16 Lo:14	
	Outdoor			Cooling:150 Heating:145		Cooling:75 Heating:73	Cooling:150 Heating:145	Cooling:150 Heating:145	
Indoor unit: Exterior dimensions	Height x Width x Depth	mm		Unit:298x840x840 Panel:35x950x950		Unit:246x840x840 Panel:35x950x950			
Indoor unit: Net weight	Unit+Panel	kg		32.5(Unit:27 Panel:5.5)		27.5(Unit:22 Panel:5.5)	29.5(Unit:24 Panel:5.5)	27.5(Unit:22 Panel:5.5)	29.5(Unit:24 Panel:5.5)
Indoor unit: Panel				T-PSA-3AW-E					
Indoor unit: Air filter, Q'ty				Pocket Plastic net x1 (Washable)					
Indoor unit: Remote control(option)				Wired:RC-E4, RCH-E3 Wireless:RCN-T-36W-E					
Outdoor unit: Exterior dimensions	Height x Width x Depth	mm		1,300x970x370	1,505x970x370	845x970x370	1,300x970x370		1,505x970x370
Outdoor unit: Net weight		kg		122	140	83	122		140
Outdoor unit: Ref.amount precharged		kg(m)		5.4(30)	7.2(30)	3.8(30)	5.4(30)		7.2(30)
Outdoor unit: Ref.piping size	Liquid/Gas	ø		9.52/22.22	12.7/22.22	9.52/15.88	9.52/22.22		12.7/22.22
Range of usage: Ref.piping length		m		70		50	70		
Range of usage: Vertical height difference	O/U is higher	m		30					
Range of usage: Vertical height difference	O/U is lower	m		15					
Operating temperature range	Cooling	O/U		-15~43*3					
Operating temperature range	Heating	O/U		-15~20		-20~20	-15~20		

The data are measured under the following conditions(ISO-T1).
Cooling:Indoor temp. of 27˚CDB, 19˚CWB, and outdoor temp. of 35˚CDB. Heating:Indoor temp. of 20˚CDB, and outdoor temp. of 7˚CDB, 6˚CWB.
*1 : Indicates the value in an anechoic chamber. During operation these values are somewhat higher due to ambient conditions.
*2 : The values are for one indoor unit operation.
*3 : If a cooling operation is conducted when the outdoor air temperature is –5˚C or lower, the outdoor unit should be installed at a place where it is not influenced by natural wind. If wind blows, the low pressure will drop and compressor frequency will increase, this will cause the capacity to drop and may cause the unit to break down.

※ Powerful-Hi can be selected. Sound level: 200/250VSPVD 51dB, 140VSTVD 39dB, 200VSTVD 46dB, 200VSDVD 39dB, 250VSDVD 46dB
Air flow: 200/250VSPVD 37CMM, 140VSTVD 20CMM, 200VSTVD 28CMM, 200VSDVD 20CMM, 250VSDVD 28CMM

CEILING CASSETTE -4way Compact (600 X 600mm)-

FDTC

FDTC 40/50/60VD

Wired remote control

RC-E4
(Option)

RCH-E3
(Option)

Wireless remote control

RCN-TC-24W-ER
(Option)

SPECIFICATIONS

The values are for simultaneous Multi operation.

				Hyper Inverter						
Set model name				FDTC71VNXPVD	FDTC100VNXPVD	FDTC125VNXPVD	FDTC140VNXTVD	FDTC100VSXPVD	FDTC125VSXPVD	FDTC140VSXTVD
				Twin			Triple	Twin		Triple
Indoor name				FDTC40VD	FDTC50VD	FDTC60VD	FDTC50VD	FDTC50VD	FDTC60VD	FDTC50VD
Outdoor name				FDC71VNX	FDC100VNX	FDC125VNX	FDC140VNX	FDC100VSX	FDC125VSX	FDC140VSX
Power source				1Phase 220-240V 50Hz, 1Phase 220V 60Hz				3Phase 380-415V 50Hz, 3Phase 380V 60Hz		
Nominal cooling capacity (Min~Max)	ISO-T1(JIS)	kW		7.1 (3.2~8.0)	10.0 (4.0~11.2)	12.5 (5.0~14.0)	14.0 (5.0~16.0)	10.0 (4.0~11.2)	12.5 (5.0~14.0)	14.0 (5.0~16.0)
Nominal heating capacity (Min~Max)	ISO-T1(JIS)	kW		8.0 (3.6~9.0)	11.2 (4.0~12.5)	14.0 (4.0~17.0)	16.0 (4.0~18.0)	11.2 (4.0~16.0)	14.0 (4.0~18.0)	16.0 (4.0~20.0)
Power Consumption	Cooling/Heating	kW		1.99/2.18	2.78/3.02	4.10/4.10	4.34/4.34	2.78/3.02	4.10/4.10	4.34/4.34
COP	Cooling/Heating			3.57/3.67	3.60/3.71	3.05/3.41	3.23/3.69	3.60/3.71	3.05/3.41	3.23/3.69
Energy label	Cooling/Heating			A/A	A/A	B/B	A/A	A/A	B/B	A/A
Inrush current (Max. running current)		A		5(17)	5(24)	5(26)		5(15)		
Sound level *1 ※	Indoor*2	dB(A)		Cooling : Hi:42 Me:36 Lo:30 Heating : Hi:42 Me:36 Lo:32		Cooling : Hi:46 Me:39 Lo:30 Heating : Hi:46 Me:39 Lo:32	Cooling : Hi:42 Me:36 Lo:30 Heating : Hi:42 Me:36 Lo:32		Cooling : Hi:46 Me:39 Lo:30 Heating : Hi:46 Me:39 Lo:32	Cooling : Hi:42 Me:36 Lo:30 Heating : Hi:42 Me:36 Lo:32
	Outdoor			Cooling:51 Heating:48	Cooling:48 Heating:50		Cooling:49 Heating:52	Cooling:48 Heating:50		Cooling:49 Heating:52
Air flow ※	Indoor*2	CMM		Cooling : Hi:11.5 Me:9 Lo:7 Heating : Hi:11.5 Me:9 Lo:8		Cooling : Hi:13.5 Me:10 Lo:7 Heating : Hi:13.5 Me:10 Lo:8	Cooling : Hi:11.5 Me:9 Lo:7 Heating : Hi:11.5 Me:9 Lo:8		Cooling : Hi:13.5 Me:10 Lo:7 Heating : Hi:13.5 Me:10 Lo:8	Cooling : Hi:11.5 Me:9 Lo:7 Heating : Hi:11.5 Me:9 Lo:8
	Outdoor			Cooling:60 Heating:50	100					
Indoor unit: Exterior dimensions	Height x Width x Depth	mm		Unit:248x570x570 Panel:35x700x700						
Indoor unit: Net weight	Unit+Panel	kg		18.5(Unit:15 Panel:3.5)						
Indoor unit: Panel				TC-PSA-25W-E						
Indoor unit: Air filter, Q'ty				Pocket Plastic net x1 (Washable)						
Indoor unit: Remote control(option)				Wired:RC-E4, RCH-E3 Wireless:RCN-TC-24W-ER						
Outdoor unit: Exterior dimensions	Height x Width x Depth	mm		750x880(+88)x340	1,300x970x370					
Outdoor unit: Net weight		kg		60	105					
Outdoor unit: Ref.amount precharged		kg(m)		2.95(30)	4.5(30)					
Outdoor unit: Ref.piping size	Liquid/Gas	ø		9.52/15.88						
Range of usage: Ref.piping length		m		50	100					
Range of usage: Vertical height difference	O/U is higher	m		30						
Range of usage: Vertical height difference	O/U is lower	m		15						
Operating temperature range	Cooling	O/U		-15~43*3						
Operating temperature range	Heating	O/U		-20~20						

The data are measured under the following conditions(ISO-T1).
Cooling:Indoor temp. of 27˚CDB, 19˚CWB, and outdoor temp. of 35˚CDB. Heating:Indoor temp. of 20˚CDB, and outdoor temp. of 7˚CDB, 6˚CWB.
*1 : Indicates the value in an anechoic chamber. During operation these values are somewhat higher due to ambient conditions.
*2 : The values are for one indoor unit operation.
*3 : If a cooling operation is conducted when the outdoor air temperature is –5˚C or lower, the outdoor unit should be installed at a place where it is not influenced by natural wind. If wind blows, the low pressure will drop and compressor frequency will increase, this will cause the capacity to drop and may cause the unit to break down.

※ Powerful-Hi can be selected. Sound level: 71/100/125VNXPVD 47dB, 100/125VSXPVD 47dB, 140VNXTVD 47dB, 140VSXTVD 47dB
Air flow: 71/100/125VNXPVD 13.5CMM, 100/125VSXPVD 13.5CMM, 140VNXTVD 13.5CMM, 140VSXTVD 13.5CMM

SPECIFICATIONS The values are for simultaneous Multi operation.

Set model name				Micro Inverter		
				FDTC100VNPVD	FDTC125VNPVD	FDTC140VNTVD
				Twin		Triple
Indoor name				FDTC50VD	FDTC60VD	FDTC50VD
Outdoor name				FDC100VN	FDC125VN	FDC140VN
Power source				1Phase 220-240V 50Hz, 1Phase 220V 60Hz		
Nominal cooling capacity (Min~Max)	ISO-T1(JIS)		kW	10.0 (4.0~11.2)	12.5 (5.0~14.0)	14.0 (5.0~14.5)
Nominal heating capacity (Min~Max)	ISO-T1(JIS)		kW	11.2 (4.0~12.5)	14.0 (4.0~16.0)	16.0 (4.0~16.5)
Power Consumption	Cooling/Heating		kW	2.84/3.08	5.35/4.62	4.64/4.52
COP	Cooling/Heating			3.52/3.64	2.34/3.03	3.02/3.54
Energy label	Cooling/Heating			A/A	F/D	B/B
Inrush current (Max. running current)			A	5(24)	5(27)	5(24)
Sound level *1 ※	Indoor*2		dB(A)	Cooling : Hi:42 Me:36 Lo:30 Heating : Hi:42 Me:36 Lo:32	Cooling : Hi:46 Me:39 Lo:30 Heating : Hi:46 Me:39 Lo:32	Cooling : Hi:42 Me:36 Lo:30 Heating : Hi:42 Me:36 Lo:32
	Outdoor			49	Cooling:50 Heating:51	51
Air flow ※	Indoor*2		CMM	Cooling : Hi:11.5 Me:9 Lo:7 Heating : Hi:11.5 Me:9 Lo:8	Cooling : Hi:13.5 Me:10 Lo:7 Heating : Hi:13.5 Me:10 Lo:8	Cooling : Hi:11.5 Me:9 Lo:7 Heating : Hi:11.5 Me:9 Lo:8
	Outdoor			Cooling:75 Heating:73		
Indoor unit	Exterior dimensions	Height x Width x Depth	mm	Unit:248x570x570 Panel:35x700x700		
	Net weight	Unit+Panel	kg	18.5(Unit:15 Panel:3.5)		
	Panel			TC-PSA-25W-E		
	Air filter, Q'ty			Pocket Plastic net x1 (Washable)		
	Remote control(option)			Wired:RC-E4, RCH-E3 Wireless:RCN-TC-24W-ER		
Outdoor unit	Exterior dimensions	Height x Width x Depth	mm	845x970x370		
	Net weight		kg	81		
	Ref.amount precharged		kg(m)	3.8(30)		
	Ref.piping size	Liquid/Gas	ø	9.52/15.88		
Range of usage	Ref.piping length		m	50		
	Vertical height difference	O/U is higher	m	30		
		O/U is lower	m	15		
Operating temperature range	Cooling		O/U	-15~43*3		
	Heating		O/U	-20~20		

※Powerful-Hi can be selected. Sound level: 100/125VNPVD 47dB, 140VNTVD 47dB
Air flow: 100/125VNPVD 13.5CMM, 140VNTVD 13.5CMM

SPECIFICATIONS The values are for simultaneous Multi operation.

Set model name				Micro Inverter				
				FDTC100VSPVD	FDTC125VSPVD	FDTC140VSTVD	FDTC200VSDVD	FDTC250VSDVD
				Twin		Triple	Double Twin	
Indoor name				FDTC50VD	FDTC60VD	FDTC50VD	FDTC50VD	FDTC60VD
Outdoor name				FDC100VS	FDC125VS	FDC140VS	FDC200VS	FDC250VS
Power source				3Phase 380-415V 50Hz, 3Phase 380V 60Hz				
Nominal cooling capacity (Min~Max)	ISO-T1(JIS)		kW	10.0 (4.0~11.2)	12.5 (5.0~14.0)	14.0 (5.0~14.5)	20.0 (7.0~22.4)	25.0 (10.0~28.0)
Nominal heating capacity (Min~Max)	ISO-T1(JIS)		kW	11.2 (4.0~12.5)	14.0 (4.0~16.0)	16.0 (4.0~16.5)	22.4 (7.6~25.0)	28.0 (9.5~31.5)
Power Consumption	Cooling/Heating		kW	2.84/3.08	5.35/4.62	4.64/4.52	7.33/6.98	11.28/10.19
COP	Cooling/Heating			3.52/3.64	2.34/3.03	3.02/3.54	2.73/3.21	2.22/2.75
Energy label	Cooling/Heating			A/A	F/D	B/B	D/C	F/E
Inrush current (Max. running current)			A	5(15)	5(15)	5(15)	5(19)	5(22)
Sound level *1 ※	Indoor*2		dB(A)	Cooling : Hi:42 Me:36 Lo:30 Heating : Hi:42 Me:36 Lo:32	Cooling : Hi:46 Me:39 Lo:30 Heating : Hi:46 Me:39 Lo:32	Cooling : Hi:42 Me:36 Lo:30 Heating : Hi:42 Me:36 Lo:32		Cooling : Hi:46 Me:39 Lo:30 Heating : Hi:46 Me:39 Lo:32
	Outdoor			49	Cooling:50 Heating:51	51	57	Cooling:57 Heating:58
Air flow ※	Indoor*2		CMM	Cooling : Hi:11.5 Me:9 Lo:7 Heating : Hi:11.5 Me:9 Lo:8	Cooling : Hi:13.5 Me:10 Lo:7 Heating : Hi:13.5 Me:10 Lo:8	Cooling : PHi:11.5 Me:9 Lo:7 Heating : Hi:11.5 Me:9 Lo:8		Cooling : Hi:13.5 Me:10 Lo:7 Heating : Hi:13.5 Me:10 Lo:8
	Outdoor			Cooling:75 Heating:73			Cooling:150 Heating:145	
Indoor unit	Exterior dimensions	Height x Width x Depth	mm	Unit:248x570x570 Panel:35x700x700				
	Net weight	Unit+Panel	kg	18.5(Unit:15 Panel:3.5)				
	Panel			TC-PSA-25W-E				
	Air filter, Q'ty			Pocket Plastic net x1 (Washable)				
	Remote control(option)			Wired:RC-E4, RCH-E3 Wireless:RCN-TC-24W-ER				
Outdoor unit	Exterior dimensions	Height x Width x Depth	mm	845x970x370			1,300x970x370	1,505x970x370
	Net weight		kg	83			122	140
	Ref.amount precharged		kg(m)	3.8(30)			5.4(30)	7.2(30)
	Ref.piping size	Liquid/Gas	ø	9.52/15.88			9.52/22.22	12.7/22.22
Range of usage	Ref.piping length		m	50			70	
	Vertical height difference	O/U is higher	m	30				
		O/U is lower	m	15				
Operating temperature range	Cooling		O/U	-15~43*3				
	Heating		O/U	-20~20			-15~20	

The data are measured under the following conditions(ISO-T1).
Cooling:Indoor temp. of 27˚CDB, 19˚CWB, and outdoor temp. of 35˚CDB. Heating:Indoor temp. of 20˚CDB, and outdoor temp. of 7˚CDB, 6˚CWB.
*1 : Indicates the value in an anechoic chamber. During operation these values are somewhat higher due to ambient conditions.
*2 : The values are for one indoor unit operation.
*3 : If a cooling operation is conducted when the outdoor air temperature is –5˚C or lower, the outdoor unit should be installed at a place where it is not influenced by natural wind. If wind blows, the low pressure will drop and compressor frequency will increase, this will cause the capacity to drop and may cause the unit to break down.

※Powerful-Hi can be selected. Sound level: 100/125VSPVD 47dB, 140VSTVD 47dB, 200/250VSDVD 47dB
Air flow: 100/125VSPVD 13.5CMM, 140VSTVD 13.5CMM, 200/250VSDVD 13.5CMM

DUCT CONNECTED -Low/Middle Static pressure-

FDUM

FDUM 50/60/71/
100/125VD

external static pressure loss:5pa

Filter kit

UM-FL1E : for 50
UM-FL2E : for 60, 71
UM-FL3E : for 100, 125
(option)

Wired remote control

RC-E4
(Option)

RCH-E3
(Option)

Wireless remote control

RCN-KIT3-E
(Option)

SPECIFICATIONS

The values are for simultaneous Multi operation.

				Hyper Inverter	
Set model name				FDUM100VNXPVD	FDUM125VNXPVD
				Twin	
Indoor name				FDUM50VD	FDUM60VD
Outdoor name				FDC100VNX	FDC125VNX
Power source				1Phase 220-240V 50Hz, 1Phase 220V 60Hz	
Nominal cooling capacity (Min~Max)	ISO-T1(JIS)		kW	10.0 (4.0~11.2)	12.5 (5.0~14.0)
Nominal heating capacity (Min~Max)	ISO-T1(JIS)		kW	11.2 (4.0~12.5)	14.0 (4.0~17.0)
Power Consumption	Cooling/Heating		kW	2.94/2.94	3.86/4.10
COP	Cooling/Heating			3.40/3.81	3.24/3.41
Energy label	Cooling/Heating			A/A	A/B
Inrush current (Max. running current)			A	5(24)	5(26)
Sound level*1 ※	Indoor*2		dB(A)	Hi:34 Me:31 Lo:28	
	Outdoor			Cooling:48 Heating:50	
Air flow ※	Indoor*2		CMM	Hi:13 Me:12 Lo:11	Hi:16 Me:15 Lo:14
	Outdoor			100	
Indoor unit: Exterior dimensions	Height x Width x Depth		mm	299x750x635	299x950x635
Indoor unit: Net weight			kg	34	40
Indoor unit: Air filter, Q'ty				Procure locally	
Indoor unit: Remote control(option)				Wired:RC-E4, RCH-E3 Wireless:RCN-KIT3-E	
Outdoor unit: Exterior dimensions	Height x Width x Depth		mm	1,300x970x370	
Outdoor unit: Net weight			kg	105	
Outdoor unit: Ref.amount precharged			kg(m)	4.5(30)	
Outdoor unit: Ref.piping size	Liquid/Gas		ø	9.52/15.88	
Range of usage: Ref.piping length			m	100	
Range of usage: Vertical height difference	O/U is higher		m	30	
Range of usage: Vertical height difference	O/U is lower		m	15	
Operating temperature range	Cooling		O/U	-15~43*3	
	Heating		O/U	-20~20	

SPECIFICATIONS

The values are for simultaneous Multi operation.

				Hyper Inverter					
Set model name				FDUM140VNXPVD	FDUM140VNXTVD	FDUM100VSXPVD	FDUM125VSXPVD	FDUM140VSXPVD	FDUM140VSXTVD
				Twin	Triple	Twin			Triple
Indoor name				FDUM71VD	FDUM50VD	FDUM50VD	FDUM60VD	FDUM71VD	FDUM50VD
Outdoor name				FDC140VNX	FDC140VNX	FDC100VSX	FDC125VSX	FDC140VSX	FDC140VSX
Power source				1Phase 220-240V 50Hz, 1Phase 220V 60Hz		3Phase 380-415V 50Hz, 3Phase 380V 60Hz			
Nominal cooling capacity (Min~Max)	ISO-T1(JIS)		kW	14.0 (5.0~16.0)	14.0 (5.0~16.0)	10.0 (4.0~11.2)	12.5 (5.0~14.0)	14.0 (5.0~16.0)	14.0 (5.0~16.0)
Nominal heating capacity (Min~Max)	ISO-T1(JIS)		kW	16.0 (4.0~18.0)	16.0 (4.0~18.0)	11.2 (4.0~16.0)	14.0 (4.0~18.0)	16.0 (4.0~20.0)	16.0 (4.0~20.0)
Power Consumption	Cooling/Heating		kW	4.60/4.69	4.60/4.69	2.94/2.94	3.86/4.10	4.60/4.69	4.60/4.69
COP	Cooling/Heating			3.04/3.41	3.04/3.41	3.40/3.81	3.24/3.41	3.04/3.41	3.04/3.41
Energy label	Cooling/Heating			B/B	B/B	A/A	A/B	B/B	B/B
Inrush current (Max. running current)			A	5(26)		5(15)			
Sound level*1 ※	Indoor*2		dB(A)	Hi:35 Me:32 Lo:29	Hi:34 Me:31 Lo:28			Hi:35 Me:32 Lo:29	Hi:34 Me:31 Lo:28
	Outdoor			Cooling:49 Heating:52	Cooling:49 Heating:52	Cooling:48 Heating:50		Cooling:49 Heating:52	Cooling:49 Heating:52
Air flow ※	Indoor*2		CMM	Hi:20 Me:18 Lo:15	Hi:13 Me:12 Lo:11	Hi:13 Me:12 Lo:11	Hi:16 Me:15 Lo:14	Hi:20 Me:18 Lo:15	Hi:13 Me:12 Lo:11
	Outdoor			100					
Indoor unit: Exterior dimensions	Height x Width x Depth		mm	299x950x635	299x750x635		299x950x635		299x750x635
Indoor unit: Net weight			kg	40	34		40		34
Indoor unit: Air filter, Q'ty				Procure locally					
Indoor unit: Remote control(option)				Wired:RC-E4, RCH-E3 Wireless:RCN-KIT3-E					
Outdoor unit: Exterior dimensions	Height x Width x Depth		mm	1,300x970x370					
Outdoor unit: Net weight			kg	105					
Outdoor unit: Ref.amount precharged			kg(m)	4.5(30)					
Outdoor unit: Ref.piping size	Liquid/Gas		ø	9.52/15.88					
Range of usage: Ref.piping length			m	100					
Range of usage: Vertical height difference	O/U is higher		m	30					
Range of usage: Vertical height difference	O/U is lower		m	15					
Operating temperature range	Cooling		O/U	-15~43*3					
	Heating		O/U	-20~20					

The data are measured under the following conditions(ISO-T1).
Cooling:Indoor temp. of 27˚CDB, 19˚CWB, and outdoor temp. of 35˚CDB. Heating:Indoor temp. of 20˚CDB, and outdoor temp. of 7˚CDB, 6˚CWB.
*1 : Indicates the value in an anechoic chamber. During operation these values are somewhat higher due to ambient conditions.
*2 : The values are for one indoor unit operation.
*3 : If a cooling operation is conducted when the outdoor air temperature is –5˚C or lower, the outdoor unit should be installed at a place where it is not influenced by natural wind. If wind blows, the low pressure will drop and compressor frequency will increase, this will cause the capacity to drop and may cause the unit to break down.

※ Powerful-Hi can be selected. Sound level: 100VNXPVD 35dB, 100VSXPVD 35dB, 125/140VNXPVD 38dB, 125/140VSXPVD 38dB, 140VNXTVD 35dB, 140VSXTVD 35dB
Air flow: 100VNXPVD 14CMM, 100VSXPVD 14CMM, 125/140VNXPVD 18CMM, 125/140VSXPVD 18CMM, 140VNXTVD 14CMM, 140VSXTVD 14CMM

SPECIFICATIONS

The values are for simultaneous Multi operation.

				Micro Inverter				
Set model name				FDUM100VNPVD	FDUM125VNPVD	FDUM140VNPVD	FDUM140VNTVD	FDUM100VSPVD
				Twin			Triple	Twin
Indoor name				FDUM50VD	FDUM60VD	FDUM71VD	FDUM50VD	FDUM50VD
Outdoor name				FDC100VN	FDC125VN	FDC140VN	FDC140VN	FDC100VS
Power source				1Phase 220-240V 50Hz, 1Phase 220V 60Hz				3Phase 380-415V 50Hz, 3Phase 380V 60Hz
Nominal cooling capacity (Min~Max)	ISO-T1(JIS)	kW		10.0 (4.0~11.2)	12.5 (5.0~14.0)	14.0 (5.0~14.5)	14.0 (5.0~14.5)	10.0 (4.0~11.2)
Nominal heating capacity (Min~Max)	ISO-T1(JIS)	kW		11.2 (4.0~12.5)	14.0 (4.0~16.0)	16.0 (4.0~16.5)	16.0 (4.0~16.5)	11.2 (4.0~12.5)
Power Consumption	Cooling/Heating	kW		3.12/3.27	4.47/4.51	50Hz:5.00/4.94 60Hz:5.00/4.80	50Hz:5.09/5.03 60Hz:5.09/4.89	3.12/3.27
COP	Cooling/Heating			3.21/3.43	2.80/3.10	50Hz:2.80/3.24 60Hz:2.80/3.33	50Hz:2.75/3.18 60Hz:2.75/3.27	3.21/3.43
Energy label	Cooling/Heating			A/B	C/D	C/C	50Hz:D/D 60Hz:D/C	A/B
Inrush current (Max. running current)			A	5(24)				5(15)
Sound level*1 ※	Indoor*2	dB(A)		Hi:34 Me:31 Lo:28	Hi:34 Me:31 Lo:28	Hi:35 Me:32 Lo:29	Hi:34 Me:31 Lo:28	
	Outdoor			49	Cooling:50 Heating:51	51		49
Air flow ※	Indoor*2	CMM		Hi:13 Me:12 Lo:11	Hi:16 Me:15 Lo:14	Hi:20 Me:18 Lo:15	Hi:13 Me:12 Lo:11	
	Outdoor			Cooling:75 Heating:73				
Indoor unit: Exterior dimensions	Height x Width x Depth	mm		299x750x635	299x950x635			299x750x635
Indoor unit: Net weight		kg		34	40		34	
Indoor unit: Air filter, Q'ty				Procure locally				
Indoor unit: Remote control(option)				Wired:RC-E4, RCH-E3 Wireless:RCN-KIT3-E				
Outdoor unit: Exterior dimensions	Height x Width x Depth	mm		845x970x370				
Outdoor unit: Net weight		kg		81				83
Outdoor unit: Ref.amount precharged		kg(m)		3.8(30)				
Outdoor unit: Ref.piping size	Liquid/Gas	ø		9.52/15.88				
Range of usage: Ref.piping length		m		50				
Range of usage: Vertical height difference	O/U is higher	m		30				
Range of usage: Vertical height difference	O/U is lower	m		15				
Operating temperature range	Cooling	O/U		-15~43*3				
Operating temperature range	Heating	O/U		-20~20				

※Powerful-Hi can be selected. Sound level: 100VNPVD 35dB, 125VNPVD 38dB, 140VNPVD 38dB, 140VNTVD 35dB, 100VSPVD 35dB
Air flow: 100VNPVD 14CMM, 125VNPVD 18CMM, 140VNPVD 23CMM, 140VNTVD 14CMM, 100VSPVD 14CMM

SPECIFICATIONS

The values are for simultaneous Multi operation.

				Micro Inverter					
Set model name				FDUM125VSPVD	FDUM140VSPVD	FDUM200VSPVD	FDUM250VSPVD	FDUM140VSTVD	FDUM200VSTVD
				Twin				Triple	
Indoor name				FDUM60VD	FDUM71VD	FDUM100VD	FDUM125VD	FDUM50VD	FDUM71VD
Outdoor name				FDC125VS	FDC140VS	FDC200VS	FDC250VS	FDC140VS	FDC200VS
Power source				3Phase 380-415V 50Hz, 3Phase 380V 60Hz					
Nominal cooling capacity (Min~Max)	ISO-T1(JIS)	kW		12.5 (5.0~14.0)	14.0 (5.0~14.5)	20.0 (7.0~22.4)	25.0 (10.0~28.0)	14.0 (5.0~14.5)	20.0 (7.0~22.4)
Nominal heating capacity (Min~Max)	ISO-T1(JIS)	kW		14.0 (4.0~16.0)	16.0 (4.0~16.5)	22.4 (7.6~25.0)	28.0 (9.5~31.5)	16.0 (4.0~16.5)	22.4 (7.6~25.0)
Power Consumption	Cooling/Heating	kW		4.47/4.51	50Hz:5.00/4.94 60Hz:5.00/4.80	6.86/6.72	9.31/8.35	50Hz:5.09/5.03 60Hz:5.09/4.89	6.88/6.74
COP	Cooling/Heating			2.80/3.10	50Hz:2.80/3.24 60Hz:2.80/3.33	2.92/3.33	2.69/3.35	50Hz:2.75/3.18 60Hz:2.75/3.27	2.91/3.32
Energy label	Cooling/Heating			C/D	C/C	C/C	D/C	50Hz:D/D 60Hz:D/C	C/C
Inrush current (Max. running current)			A	5(15)		5(19)	5(22)	5(15)	5(19)
Sound level*1 ※	Indoor*2	dB(A)		Hi:34 Me:31 Lo:28	Hi:35 Me:32 Lo:29	Hi:37 Me:35 Lo:32	Hi:38 Me:36 Lo:33	Hi:34 Me:31 Lo:28	Hi:35 Me:32 Lo:29
	Outdoor			Cooling:50 Heating:51	51	57	Cooling:57 Heating:58	51	57
Air flow ※	Indoor*2	CMM		Hi:16 Me:15 Lo:14	Hi:20 Me:18 Lo:15	Hi:28 Me:25 Lo:22		Hi:13 Me:12 Lo:11	Hi:20 Me:18 Lo:15
	Outdoor			Cooling:75 Heating:73		Cooling:150 Heating:145		Cooling:75 Heating:73	Cooling:150 Heating:145
Indoor unit: Exterior dimensions	Height x Width x Depth	mm		299x950x635		350x1,370x635		299x750x635	1,300x970x370
Indoor unit: Net weight		kg		40		59		34	122
Indoor unit: Air filter, Q'ty				Procure locally					
Indoor unit: Remote control(option)				Wired:RC-E4, RCH-E3 Wireless:RCN-KIT3-E					
Outdoor unit: Exterior dimensions	Height x Width x Depth	mm		845x970x370		1,300x970x370	1,505x970x370	845x970x370	1,300x970x370
Outdoor unit: Net weight		kg		83		122	140	83	122
Outdoor unit: Ref.amount precharged		kg(m)		3.8(30)		5.4(30)	7.2(30)	3.8(30)	5.4(30)
Outdoor unit: Ref.piping size	Liquid/Gas	ø		9.52/15.88		9.52/22.22	12.7/22.22	9.52/15.88	9.52/22.22
Range of usage: Ref.piping length		m		50		70		50	70
Range of usage: Vertical height difference	O/U is higher	m		30					
Range of usage: Vertical height difference	O/U is lower	m		15					
Operating temperature range	Cooling	O/U		-15~43*3					
Operating temperature range	Heating	O/U		-20~20		-15~20		-20~20	-15~20

The data are measured under the following conditions(ISO-T1).
Cooling:Indoor temp. of 27˚CDB, 19˚CWB, and outdoor temp. of 35˚CDB. Heating:Indoor temp. of 20˚CDB, and outdoor temp. of 7˚CDB, 6˚CWB. External static pressure of indoor units is 60Pa.

*1 : Indicates the value in an anechoic chamber. During operation these values are somewhat higher due to ambient conditions.

*2 : The values are for one indoor unit operation.

*3 : If a cooling operation is conducted when the outdoor air temperature is –5˚C or lower, the outdoor unit should be installed at a place where it is not influenced by natural wind. If wind blows, the low pressure will drop and compressor frequency will increase, this will cause the capacity to drop and may cause the unit to break down.

※Powerful-Hi can be selected. Sound level: 125/140VSPVD 38dB, 200/250VSPVD 41dB, 140VSTVD 35dB, 200VSTVD 38dB
Air flow: 125VSPVD 18CMM, 140VSPVD 23CMM, 200/250VSPVD 34CMM, 140VSTVD 14CMM, 200VSTVD 23CMM

CEILING SUSPENDED

FDEN

FDEN 40/50/60/71/100/125VD

Wired remote control

RC-E4
(Option)

RCH-E3
(Option)

Wireless remote control

RCN-E1R
(Option)

SPECIFICATIONS

The values are for simultaneous Multi operation.

				Hyper Inverter
Set model name				FDEN71VNXPVD / FDEN100VNXPVD
				Twin
Indoor name				FDEN40VD / FDEN50VD
Outdoor name				FDC71VNX / FDC100VNX
Power source				1Phase 220-240V 50Hz, 1Phase 220V 60Hz
Nominal cooling capacity (Min~Max)	ISO-T1(JIS)		kW	7.1 (3.2~8.0) / 10.0 (4.0~11.2)
Nominal heating capacity (Min~Max)	ISO-T1(JIS)		kW	8.0 (3.6~9.0) / 11.2 (4.0~12.5)
Power Consumption	Cooling/Heating		kW	1.98/2.40 / 3.02/3.18
COP	Cooling/Heating			3.59/3.33 / 3.31/3.52
Energy label	Cooling/Heating			A/C / A/B
Inrush current (Max. running current)			A	5(17) / 5(24)
Sound level*1 ※	Indoor*2		dB(A)	Hi:39 Me:38 Lo:37
	Outdoor			Cooling:51 Heating:48 / Cooling:48 Heating:50
Air flow ※	Indoor*2		CMM	Hi:11 Me:9 Lo:7
	Outdoor			Cooling:60 Heating:50 / 100
Indoor unit: Exterior dimensions	Height x Width x Depth		mm	210x1,070x690
Indoor unit: Net weight			kg	28
Indoor unit: Air filter, Q'ty				Pocket Plastic net x2 (Washable)
Indoor unit: Remote control(option)				Wired:RC-E4, RCH-E3 Wireless:RCN-E1R
Outdoor unit: Exterior dimensions	Height x Width x Depth		mm	750X880(+88)X340 / 1,300x970x370
Outdoor unit: Net weight			kg	60 / 105
Outdoor unit: Ref.amount precharged			kg(m)	2.95(30) / 4.5(30)
Outdoor unit: Ref.piping size	Liquid/Gas		ø	9.52/15.88
Range of usage: Ref.piping length			m	50 / 100
Range of usage: Vertical height difference	O/U is higher		m	30
Range of usage: Vertical height difference	O/U is lower		m	15
Operating temperature range	Cooling		O/U	-15~43*3
Operating temperature range	Heating		O/U	-20~20

SPECIFICATIONS

The values are for simultaneous Multi operation.

				Hyper Inverter						
Set model name				FDEN125VNXPVD	FDEN140VNXPVD	FDEN140VNXTVD	FDEN100VSXPVD	FDEN125VSXPVD	FDEN140VSXPVD	FDEN140VSXTVD
				Twin		Triple	Twin			Triple
Indoor name				FDEN60VD	FDEN71VD	FDEN50VD	FDEN50VD	FDEN60VD	FDEN71VD	FDEN50VD
Outdoor name				FDC125VNX	FDC140VNX	FDC140VNX	FDC100VSX	FDC125VSX	FDC140VSX	FDC140VSX
Power source				1Phase 220-240V 50Hz, 1Phase 220V 60Hz			3Phase 380-415V 50Hz, 3Phase 380V 60Hz			
Nominal cooling capacity (Min~Max)	ISO-T1(JIS)		kW	12.5 (5.0~14.0)	14.0 (5.0~16.0)	14.0 (5.0~16.0)	10.0 (4.0~11.2)	12.5 (5.0~14.0)	14.0 (5.0~16.0)	14.0 (5.0~16.0)
Nominal heating capacity (Min~Max)	ISO-T1(JIS)		kW	14.0 (4.0~17.0)	16.0 (4.0~18.0)	16.0 (4.0~18.0)	11.2 (4.0~16.0)	14.0 (4.0~18.0)	16.0 (4.0~20.0)	16.0 (4.0~20.0)
Power Consumption	Cooling/Heating		kW	3.86/3.70	4.78/4.43	4.72/4.38	3.02/3.18	3.86/3.70	4.78/4.43	4.72/4.38
COP	Cooling/Heating			3.24/3.78	2.93/3.61	2.97/3.65	3.31/3.52	3.24/3.78	2.93/3.61	2.97/3.65
Energy label	Cooling/Heating			A/A	C/A	C/A	A/B	A/A	C/A	C/A
Inrush current (Max. running current)			A	5(26)				5(15)		
Sound level*1 ※	Indoor*2		dB(A)	Hi:41 Me:39 Lo:38		Hi:39 Me:38 Lo:37		Hi:41 Me:39 Lo:38		Hi:39 Me:38 Lo:37
	Outdoor			Cooling:48 Heating:50	Cooling:49 Heating:52	Cooling:49 Heating:52	49	Cooling:48 Heating:50	Cooling:49 Heating:52	Cooling:49 Heating:52
Air flow ※	Indoor*2		CMM	Hi:18 Me:14 Lo:12		Hi:11 Me:9 Lo:7		Hi:18 Me:14 Lo:12		Hi:11 Me:9 Lo:7
	Outdoor			100						
Indoor unit: Exterior dimensions	Height x Width x Depth		mm	210x1,320x690		210x1,070x690		210x1,320x690		210x1,070x690
Indoor unit: Net weight			kg	37		28		37		28
Indoor unit: Air filter, Q'ty				Pocket Plastic net x2 (Washable)						
Indoor unit: Remote control(option)				Wired:RC-E4, RCH-E3 Wireless:RCN-E1R						
Outdoor unit: Exterior dimensions	Height x Width x Depth		mm	1,300x970x370						
Outdoor unit: Net weight			kg	105						
Outdoor unit: Ref.amount precharged			kg(m)	4.5(30)						
Outdoor unit: Ref.piping size	Liquid/Gas		ø	9.52/15.88						
Range of usage: Ref.piping length			m	100						
Range of usage: Vertical height difference	O/U is higher		m	30						
Range of usage: Vertical height difference	O/U is lower		m	15						
Operating temperature range	Cooling		O/U	-15~43*3						
Operating temperature range	Heating		O/U	-20~20						

The data are measured under the following conditions(ISO-T1).
Cooling:Indoor temp. of 27˚CDB, 19˚CWB, and outdoor temp. of 35˚CDB. Heating:Indoor temp. of 20˚CDB, and outdoor temp. of 7˚CDB, 6˚CWB.
*1 : Indicates the value in an anechoic chamber. During operation these values are somewhat higher due to ambient conditions.
*2 : The values are for one indoor unit operation.
*3 : If a cooling operation is conducted when the outdoor air temperature is –5˚C or lower, the outdoor unit should be installed at a place where it is not influenced by natural wind. If wind blows, the low pressure will drop and compressor frequency will increase, this will cause the capacity to drop and may cause the unit to break down.

※ Powerful-Hi can be selected. Sound level: 71/100VNXPVD 46dB, 100VSXPVD 46dB, 125/140VNXPVD 50dB, 125/140VSXPVD 50dB, 140VNXTVD 46dB, 140VSXTVD 46dB
Air flow: 71/100VNXPVD 13CMM, 100VSXPVD 13CMM, 125/140VNXPVD 22CMM, 125/140VSXPVD 22CMM, 140VNXTVD 13CMM, 140VSXTVD 13CMM

SPECIFICATIONS

The values are for simultaneous Multi operation.

				Micro Inverter					
Set model name				FDEN100VNPVD	FDEN125VNPVD	FDEN140VNPVD	FDEN140VNTVD	FDEN100VSPVD	FDEN125VSPVD
				Twin			Triple	Twin	
Indoor name				FDEN50VD	FDEN60VD	FDEN71VD	FDEN50VD	FDEN50VD	FDEN60VD
Outdoor name				FDC100VN	FDC125VN	FDC140VN	FDC140VN	FDC100VS	FDC125VS
Power source				1Phase 220-240V 50Hz, 1Phase 220V 60Hz				3Phase 380-415V 50Hz, 3Phase 380V 60Hz	
Nominal cooling capacity (Min~Max)	ISO-T1(JIS)	kW		10.0 (4.0~11.2)	12.5 (5.0~14.0)	14.0 (5.0~14.5)	14.0 (5.0~14.5)	10.0 (4.0~11.2)	12.5 (5.0~14.0)
Nominal heating capacity (Min~Max)	ISO-T1(JIS)	kW		11.2 (4.0~12.5)	14.0 (4.0~16.0)	16.0 (4.0~16.5)	16.0 (4.0~16.5)	11.2 (4.0~12.5)	14.0 (4.0~16.0)
Power Consumption	Cooling/Heating	kW		3.12/3.28	4.23/3.83	4.87/4.59	4.88/4.58	3.12/3.28	4.23/3.83
COP	Cooling/Heating			3.21/3.41	2.96/3.66	2.87/3.49	2.87/3.49	3.21/3.41	2.96/3.66
Energy label	Cooling/Heating			A/B	C/A	C/B	C/B	A/B	C/A
Inrush current (Max. running current)		A		5(24)				5(15)	
Sound level *1 ※	Indoor*2	dB(A)		Hi:39 Me:38 Lo:37	Hi:41 Me:39 Lo:38		Hi:39 Me:38 Lo:37		Hi:41 Me:39 Lo:38
	Outdoor			49	Cooling:50 Heating:51	51		49	Cooling:50 Heating:51
Air flow ※	Indoor*2	CMM		Hi:11 Me:9 Lo:7	Hi:18 Me:14 Lo:12		Hi:11 Me:9 Lo:7		Hi:18 Me:14 Lo:12
	Outdoor			Cooling:75 Heating:73					
Indoor unit: Exterior dimensions	Height x Width x Depth	mm		210x1,070x690	210x1,320x690		210x1,070x690		210x1,320x690
Indoor unit: Net weight		kg		28	37		28		37
Indoor unit: Air filter, Q'ty				Pocket Plastic net x2 (Washable)					
Indoor unit: Remote control(option)				Wired:RC-E4, RCH-E3 Wireless:RCN-E1R					
Outdoor unit: Exterior dimensions	Height x Width x Depth	mm		845x970x370					
Outdoor unit: Net weight		kg		81				83	
Outdoor unit: Ref.amount precharged		kg(m)		3.8(30)					
Outdoor unit: Ref.piping size	Liquid/Gas	ø		9.52/15.88					
Range of usage: Ref.piping length		m		50					
Range of usage: Vertical height difference	O/U is higher	m		30					
Range of usage: Vertical height difference	O/U is lower	m		15					
Operating temperature range	Cooling	O/U		-15~43*3					
Operating temperature range	Heating	O/U		-20~20					

※Powerful-Hi can be selected. Sound level: 100VNPVD 46dB, 125/140VNPVD 50dB, 140VNTVD 46dB, 100VSPVD 46dB, 125VSPVD 50dB
Air flow: 100VNPVD 13CMM, 125/140VNPVD 22CMM, 140VNTVD 13CMM, 100VSPVD 13CMM, 125VSPVD 22CMM

SPECIFICATIONS

The values are for simultaneous Multi operation.

				Micro Inverter						
Set model name				FDEN140VSPVD	FDEN200VSPVD	FDEN250VSPVD	FDEN140VSTVD	FDEN200VSTVD	FDEN200VSDVD	FDEN250VSDVD
				Twin			Triple		Double Twin	
Indoor name				FDEN71VD	FDEN100VD	FDEN125VD	FDEN50VD	FDEN71VD	FDEN50VD	FDEN60VD
Outdoor name				FDC140VS	FDC200VS	FDC250VS	FDC140VS	FDC200VS	FDC200VS	FDC250VS
Power source				3Phase 380-415V 50Hz, 3Phase 380V 60Hz						
Nominal cooling capacity (Min~Max)	ISO-T1(JIS)	kW		14.0 (5.0~14.5)	20.0 (7.0~22.4)	25.0 (10.0~28.0)	14.0 (5.0~14.5)	20.0 (7.0~22.4)	20.0 (7.0~22.4)	25.0 (10.0~28.0)
Nominal heating capacity (Min~Max)	ISO-T1(JIS)	kW		16.0 (4.0~16.5)	22.4 (7.6~25.0)	28.0 (9.5~31.5)	16.0 (4.0~16.5)	22.4 (7.6~25.0)	22.4 (7.6~25.0)	28.0 (9.5~31.5)
Power Consumption	Cooling/Heating	kW		4.87/4.59	6.47/5.97	9.01/8.05	4.88/4.58	6.40/5.90	7.43/7.26	9.50/8.69
COP	Cooling/Heating			2.87/3.49	3.09/3.75	2.77/3.48	2.87/3.49	3.13/3.80	2.69/3.09	2.63/3.22
Energy label	Cooling/Heating			C/B	B/A	D/B	C/B	B/A	D/D	D/C
Inrush current (Max. running current)		A		5(15)	5(19)	5(22)	5(15)	5(19)		5(22)
Sound level *1 ※	Indoor*2	dB(A)		Hi:41 Me:39 Lo:38	Hi:44 Me:41 Lo:39	Hi:46 Me:44 Lo:43	Hi:39 Me:38 Lo:37	Hi:41 Me:39 Lo:38	Hi:39 Me:38 Lo:37	Hi:41 Me:39 Lo:38
	Outdoor			51	57	Cooling:57 Heating:58	51	57		Cooling:57 Heating:58
Air flow ※	Indoor*2	CMM		Hi:18 Me:14 Lo:12	Hi:26 Me:23 Lo:21	Hi:29 Me:26 Lo:23	Hi:11 Me:9 Lo:7	Hi:18 Me:14 Lo:12	Hi:11 Me:9 Lo:7	Hi:18 Me:14 Lo:12
	Outdoor			Cooling:75 Heating:73	Cooling:150 Heating:145		Cooling:75 Heating:73	Cooling:150 Heating:145		
Indoor unit: Exterior dimensions	Height x Width x Depth	mm		210x1,320x690	250x1,620x690		210x1,070x690	210x1,320x690	210x1,070x690	210x1,320x690
Indoor unit: Net weight		kg		37	49		28	37	28	37
Indoor unit: Air filter, Q'ty				Pocket Plastic net x2 (Washable)						
Indoor unit: Remote control(option)				Wired:RC-E4, RCH-E3 Wireless:RCN-E1R						
Outdoor unit: Exterior dimensions	Height x Width x Depth	mm		845x970x370	1,300x970x370	1,505x970x370	845x970x370	1,300x970x370		1,505x970x370
Outdoor unit: Net weight		kg		83	122	140	83	122		140
Outdoor unit: Ref.amount precharged		kg(m)		3.8(30)	5.4(30)	7.2(30)	3.8(30)	5.4(30)		7.2(30)
Outdoor unit: Ref.piping size	Liquid/Gas	ø		9.52/15.88	9.52/22.22	12.7/22.22	9.52/15.88	9.52/22.22		12.7/22.2
Range of usage: Ref.piping length		m		50	70		50	70		
Range of usage: Vertical height difference	O/U is higher	m		30						
Range of usage: Vertical height difference	O/U is lower	m		15						
Operating temperature range	Cooling	O/U		-15~43*3						
Operating temperature range	Heating	O/U		-20~20	-15~20		-20~20	-15~20		

The data are measured under the following conditions(ISO-T1).
Cooling:Indoor temp. of 27˚CDB, 19˚CWB, and outdoor temp. of 35˚CDB. Heating:Indoor temp. of 20˚CDB, and outdoor temp. of 7˚CDB, 6˚CWB.
*1 : Indicates the value in an anechoic chamber. During operation these values are somewhat higher due to ambient conditions.
*2 : The values are for one indoor unit operation.
*3 : If a cooling operation is conducted when the outdoor air temperature is –5˚C or lower, the outdoor unit should be installed at a place where it is not influenced by natural wind. If wind blows, the low pressure will drop and compressor frequency will increase, this will cause the capacity to drop and may cause the unit to break down.

※Powerful-Hi can be selected. Sound level: 140VSPVD 50dB, 200VSPVD 46dB, 250VSPVD 50dB, 140VSTVD 46dB, 200VSTVD 50dB, 200VSDVD 46dB, 250VSDVD 50dB
Air flow: 140VSPVD 22CMM, 200VSPVD 28CMM, 250VSPVD 32CMM, 140VSTVD 13CMM, 200VSTVD 22CMM, 200VSDVD 13CMM, 250VSDVD 22CMM

WALL MOUNTED

SRK

Only used with outdoor units of TWIN, TRIPLE, MULTI System.

SRK 50/60ZJX-S

Wired remote control

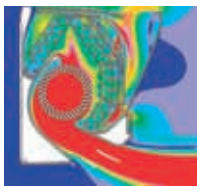
RC-E4
(Option)

RCH-E3
(Option)

Point 1 Jet Air Scroll

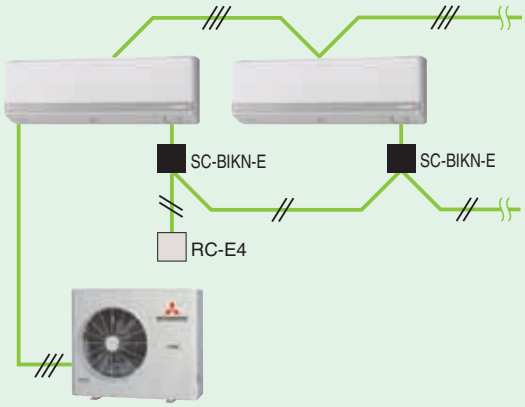
We used the same aerodynamic analysis technology as used in developing jet engines.

CFD (computational fluid dynamics), used in blade shape design of jet engines, has been applied to the design of air channels in air conditioners to develop the ideal air channel system (air circulation). The airflow of the jets created in this system enable a large volume of air to be blown with minimum power consumption, yet the air flow is uniform, quiet and reaches points a long distance from the blower.



Fast ← → Slow
Colors in the figure show the air speed.

Max four indoor units are connectable.

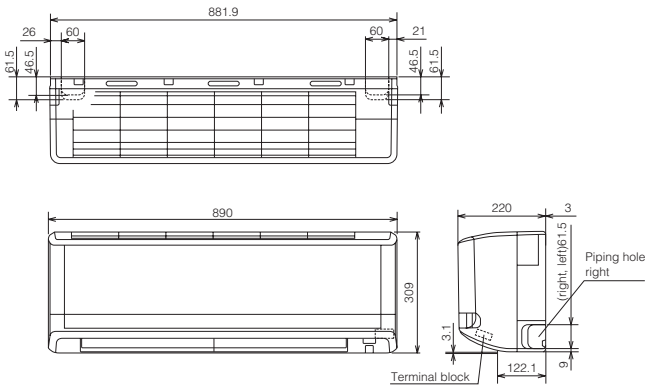


Point 2 Long Reach Air Flow

Powerful airflow is realized by Jet technology.
Good for large living rooms and shops.
Increase your comfort.

SRK50/60ZJX-S
(in cooling operation)

Outline drawing (Unit:mm)



SPECIFICATIONS

The values are for simultaneous Multi operation.

Set model name				Hyper Inverter					
				SRK100VNXPZJX	SRK125VNXPZJX	SRK140VNXTZJX	SRK100VSXPZJX	SRK125VSXPZJX	SRK140VSXTZJX
				Twin		Triple	Twin		Triple
Indoor name				SRK50ZJX-S	SRK60ZJX-S	SRK50ZJX-S	SRK50ZJX-S	SRK60ZJX-S	SRK50ZJX-S
Outdoor name				FDC100VNX	FDC125VNX	FDC140VNX	FDC100VSX	FDC125VSX	FDC140VSX
Power source				1Phase 220-240 50Hz, 1Phase 220V 60Hz			3Phase 380-415 50Hz, 3Phase 380V 60Hz		
Nominal cooling capacity (Min~Max)	ISO-T1(JIS)		kW	10.0 (4.0~11.2)	12.5 (5.0~14.0)	14.0 (5.0~16.0)	10.0 (4.0~11.2)	12.5 (5.0~14.0)	14.0 (5.0~16.0)
Nominal heating capacity (Min~Max)	ISO-T1(JIS)		kW	11.2 (4.0~12.5)	14.0 (4.0~17.0)	16.0 (4.0~18.0)	11.2 (4.0~16.0)	14.0 (4.0~18.0)	16.0 (4.0~20.0)
Power Consumption	Cooling/Heating		kW	2.66/2.60	3.60/3.48	3.98/3.68	2.66/2.60	3.60/3.48	3.98/3.68
COP	Cooling/Heating			3.76/4.31	3.47/4.02	3.52/4.35	3.76/4.31	3.47/4.02	3.52/4.35
Energy label	Cooling/Heating			A/A	A/A	A/A	A/A	A/A	A/A
Inrush current (Max. running current)			A	5 (24)			5 (15)		
Sound level*1	Indoor*2	Cooling	dB(A)	Hi:45 Me:38 Lo:26	Hi:47 Me:38 Lo:26	Hi:45 Me:38 Lo:26	Hi:45 Me:38 Lo:26	Hi:47 Me:38 Lo:26	Hi:45 Me:38 Lo:26
		Heating		Hi:45 Me:38 Lo:32	Hi:45 Me:39 Lo:33	Hi:45 Me:38 Lo:32	Hi:45 Me:38 Lo:32	Hi:45 Me:39 Lo:33	Hi:45 Me:38 Lo:32
	Outdoor			Cooling:48 Heating:50		Cooling:49 Heating:52	Cooling:48 Heating:50		Cooling:49 Heating:52
Air flow	Indoor*2	Cooling	CMM	Hi:13.5 Me:11 Lo:8	Hi:14.5 Me:12.5 Lo:8.5	Hi:13.5 Me:11 Lo:8	Hi:13.5 Me:11 Lo:8	Hi:14.5 Me:12.5 Lo:8.5	Hi:13.5 Me:11 Lo:8
		Heating		Hi:16.5 Me:14.5 Lo:10.5	Hi:17 Me:15 Lo:11	Hi:16.5 Me:14.5 Lo:10.5	Hi:16.5 Me:14.5 Lo:10.5	Hi:17 Me:15 Lo:11	Hi:16.5 Me:14.5 Lo:10.5
	Outdoor			100					
Indoor unit: Exterior dimensions	Height x Width x Depth		mm	309x890x220					
Indoor unit: Net weight			kg	15					
Indoor unit: Air filter, Q'ty				Polypropylene net x2 (Washable)					
Indoor unit: Remote control(option)				Wired:RC-E4, RCH-E3 & Interface kit:SC-BIKN-E					
Outdoor unit: Exterior dimensions	Height x Width x Depth		mm	1,300x970x370					
Outdoor unit: Net weight			kg	105					
Outdoor unit: Ref.amount precharged			kg(m)	4.5(30)					
Outdoor unit: Ref.piping size	Liquid/Gas		ø	9.52/15.88					
Range of usage: Ref.piping length			m	100					
Range of usage: Vertical height difference	O/U is higher		m	30					
Range of usage: Vertical height difference	O/U is lower		m	15					
Operating temperature range	Cooling		O/U	-15~43*3					
Operating temperature range	Heating		O/U	-20~20					

SPECIFICATIONS

The values are for simultaneous Multi operation.

Set model name				Micro Inverter					
				SRK100VNPZJX	SRK125VNPZJX	SRK140VNTZJX	SRK100VSPZJX	SRK125VSPZJX	SRK140VSTZJX
				Twin		Triple	Twin		Triple
Indoor name				SRK50ZJX-S	SRK60ZJX-S	SRK50ZJX-S	SRK50ZJX-S	SRK60ZJX-S	SRK50ZJX-S
Outdoor name				FDC100VN	FDC125VN	FDC140VN	FDC100VS	FDC125VS	FDC140VS
Power source				1Phase 220-240 50Hz, 1Phase 220V 60Hz			3Phase 380-415 50Hz, 3Phase 380V 60Hz		
Nominal cooling capacity (Min~Max)	ISO-T1(JIS)		kW	10.0 (4.0~11.2)	12.5 (5.0~14.0)	14.0 (5.0~14.5)	10.0 (4.0~11.2)	12.5 (5.0~14.0)	14.0 (5.0~14.5)
Nominal heating capacity (Min~Max)	ISO-T1(JIS)		kW	11.2 (4.0~12.5)	14.0 (4.0~16.0)	16.0 (4.0~16.5)	11.2 (4.0~12.5)	14.0 (4.0~16.0)	16.0 (4.0~16.5)
Power Consumption	Cooling/Heating		kW	2.72/2.86	4.25/4.29	4.53/4.05	2.72/2.86	4.25/4.29	4.53/4.05
COP	Cooling/Heating			3.62/3.92	2.94/3.26	3.09/3.95	3.62/3.92	2.94/3.26	3.09/3.95
Energy label	Cooling/Heating			A/A	C/C	B/A	A/A	C/C	B/A
Inrush current (Max. running current)			A	5 (24)			5 (15)		
Sound level*1	Indoor*2	Cooling	dB(A)	Hi:45 Me:38 Lo:26	Hi:47 Me:38 Lo:26	Hi:45 Me:38 Lo:26	Hi:45 Me:38 Lo:26	Hi:47 Me:38 Lo:26	Hi:45 Me:38 Lo:26
		Heating		Hi:45 Me:38 Lo:32	Hi:45 Me:39 Lo:33	Hi:45 Me:38 Lo:32	Hi:45 Me:38 Lo:32	Hi:45 Me:39 Lo:33	Hi:45 Me:38 Lo:32
	Outdoor			49	Cooling:50,Heating:51	51	49	Cooling:50,Heating:51	51
Air flow	Indoor*2	Cooling	CMM	Hi:13.5 Me:11 Lo:8	Hi:14.5 Me:12.5 Lo:8.5	Hi:13.5 Me:11 Lo:8	Hi:13.5 Me:11 Lo:8	Hi:14.5 Me:12.5 Lo:8.5	Hi:13.5 Me:11 Lo:8
		Heating		Hi:16.5 Me:14.5 Lo:10.5	Hi:17 Me:15 Lo:11	Hi:16.5 Me:14.5 Lo:10.5	Hi:16.5 Me:14.5 Lo:10.5	Hi:17 Me:15 Lo:11	Hi:16.5 Me:14.5 Lo:10.5
	Outdoor			Cooling:75,Heating:73					
Indoor unit: Exterior dimensions	Height x Width x Depth		mm	309x890x220					
Indoor unit: Net weight			kg	15					
Indoor unit: Air filter, Q'ty				Polypropylene net x2 (Washable)					
Indoor unit: Remote control(option)				Wired:RC-E4, RCH-E3 & Interface kit:SC-BIKN-E					
Outdoor unit: Exterior dimensions	Height x Width x Depth		mm	845x970x370					
Outdoor unit: Net weight			kg	81			83		
Outdoor unit: Ref.amount precharged			kg(m)	3.8(30)					
Outdoor unit: Ref.piping size	Liquid/Gas		ø	9.52/15.88					
Range of usage: Ref.piping length			m	50					
Range of usage: Vertical height difference	O/U is higher		m	30					
Range of usage: Vertical height difference	O/U is lower		m	15					
Operating temperature range	Cooling		O/U	-15~43*3					
Operating temperature range	Heating		O/U	-20~20					

The data are measured under the following conditions (ISO-T1).
Cooling:Indoor temp. of 27˚CDB, 19˚CWB, and outdoor temp. of 35˚CDB.
Heating:Indoor temp. of 20˚CDB, and outdoor temp. of 7˚CDB, 6˚CWB.
*1 : Indicates the value in an anechoic chamber. During operation these values are somewhat higher due to ambient conditions.
*2 : The values are for one indoor unit operation.
*3 : If a cooling operation is conducted when the outdoor air temperature is –5˚C or lower, the outdoor unit should be installed at a place where it is not influenced by natural wind. If wind blows, the low pressure will drop and compressor frequency will increase, this will cause the capacity to drop and may cause the unit to break down.

OUTDOOR UNIT (1.5-10.0HP)

Hyper Inverter

SRC40ZIX-S
SRC50ZIX-S*
SRC60ZIX-S*
(1.5HP~2.5HP)

*SRC50/60ZIX-S is common for both of outdoor units of SRK50/60ZJX-S (Residential Air-conditioners) and 1.5, 2, 2.5HP of Inverter Packaged Air-Conditioners. Common components make for easy inventory control and the installation procedure will be the same.

FDC71VNX
(3.0HP)

NEW

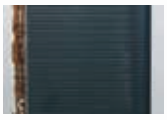
FDC100VNX
FDC100VSX
(4.0HP)

FDC125VNX
FDC125VSX
(5.0HP)

FDC140VNX
FDC140VSX
(6.0HP)

Blue Fin (3~10HP)

Due to application of blue coated fins (KS101) for the heat exchanger of new outdoor unit, corrosion resistance has been improved compared to current models.



Blue Fin

Micro Inverter

FDC100VN FDC100VS
FDC125VN FDC125VS
FDC140VN FDC140VS
(4.0HP~6.0HP)

FDC200VS
(8.0HP)

FDC250VS
(10.0HP)

Base heater kit (option)

This kit is recommended to be used in an area where the lowest temperature drops below 0˚C.

CW-H-E
applied for
FDC100~250VN,VS
FDC100~140VNX,VSX

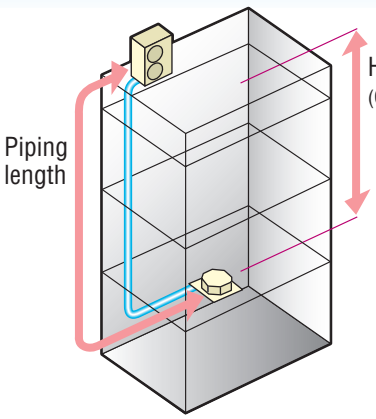
Installation workability

Enhanced installation workability thanks to the extended pipe length – longest level in the industry and pre-charged refrigerant.

Point 1 Piping length – 100m (Hyper Inverter 4~6HP)

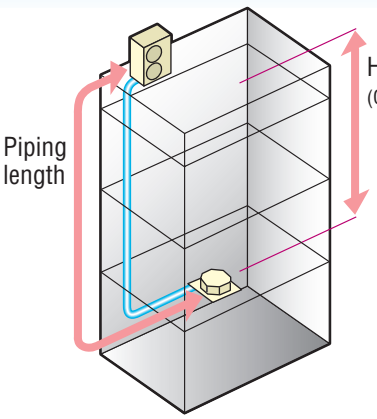
Refer to our Technical Manual in detail

Hyper Inverter



HP	Piping length	Height difference
1.5~2.5	30m	20m
3	50m	30m
4~6	100m	30m

Micro Inverter



HP	Piping length	Height difference
4~6	50m	30m
8·10	70m	30m

Point 2 Refrigerant precharged piping length extending to 30m

Refrigerant precharged piping length extends up to 30m. (1.5~2.5HP:15m)
This eliminates the need to add refrigerant on site, which sets it free from trouble of excessive or insufficient charging of refrigerant, and allows carrying out the installation smoothly.

Control Systems [Individual control]

Remote Control line up

	indoor unit	remote control
wired	all models	RC-E4
		RCH-E3

	indoor unit	remote control
wireless	FDT	RCN-T-36W-E
	FDTC	RCN-TC-24W-ER
	FDUM, FDU	RCN-KIT3-E
	FDEN	RCN-E1R

Wired remote control with weekly timer (option)

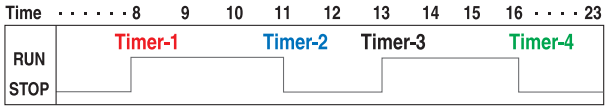
RC-E4

The RC-E4 controller enables extensive access to service and maintenance technical data combined with easy to use functions and a clear LCD display.

Weekly timer function as standard

RC-E4 provides (as a standard feature) a weekly timer, which allows one-week operation schedules to be registered. A user can specify up to four times a day to start/stop the air conditioner. (Temperature setting is also possible with the timer).

Timer operation

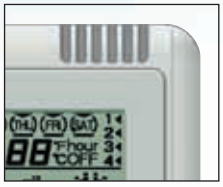


Run hour meters to facilitate maintenance checking

RC-E4 stores operation data when an anomaly occurs and indicates the error on the LCD. It also displays cumulative operation hours of the air conditioner and compressor since commissioning.

Room temperature controlled by the remote control sensor

The temperature sensor is housed in the top section of the remote control unit. This arrangement has improved the sensitivity of the remote control unit's sensor, which permits more finely controlled air conditioning.



Changeable set temperature ranges

RC-E4 allows the upper and lower limits of a set temperature range to be specified separately.
By adjusting a set temperature range, you can ensure energy saving air conditioning by avoiding excessive cooling or heating.

	Changeable range
Upper limit	20~30°C(effective for heating operation)
Lower limit	18~26°C(effective for non-heating operation)

Simple remote control (option)

RCH-E3 (wired)

Considering specialized usage in hotel rooms, control buttons are limited only to minimum required functions such as ON/OFF, mode, temperature setting and fan speed. It is really simple and easy to use.

RCH-E3 is not applicable to the Individual flap control system and the Flap control system.
When RCH-E3 is used, the fan has 3 speed settings (Hi-Me-Lo) only.

Up to 16 units

It can control up to 16 units individually, with pressing the AIR CON No. button.

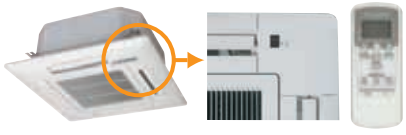
AUTO restart

This function allows starting the air conditioner automatically when power supply is restored after power failure or by turning on the power switch.

Wireless remote control (option)

For wireless control simply insert the infrared receiver kit on a corner of the panel.

RCN-T-36W-E, RCN-TC-24W-ER



RCN-KIT3-E

RCN-E1R

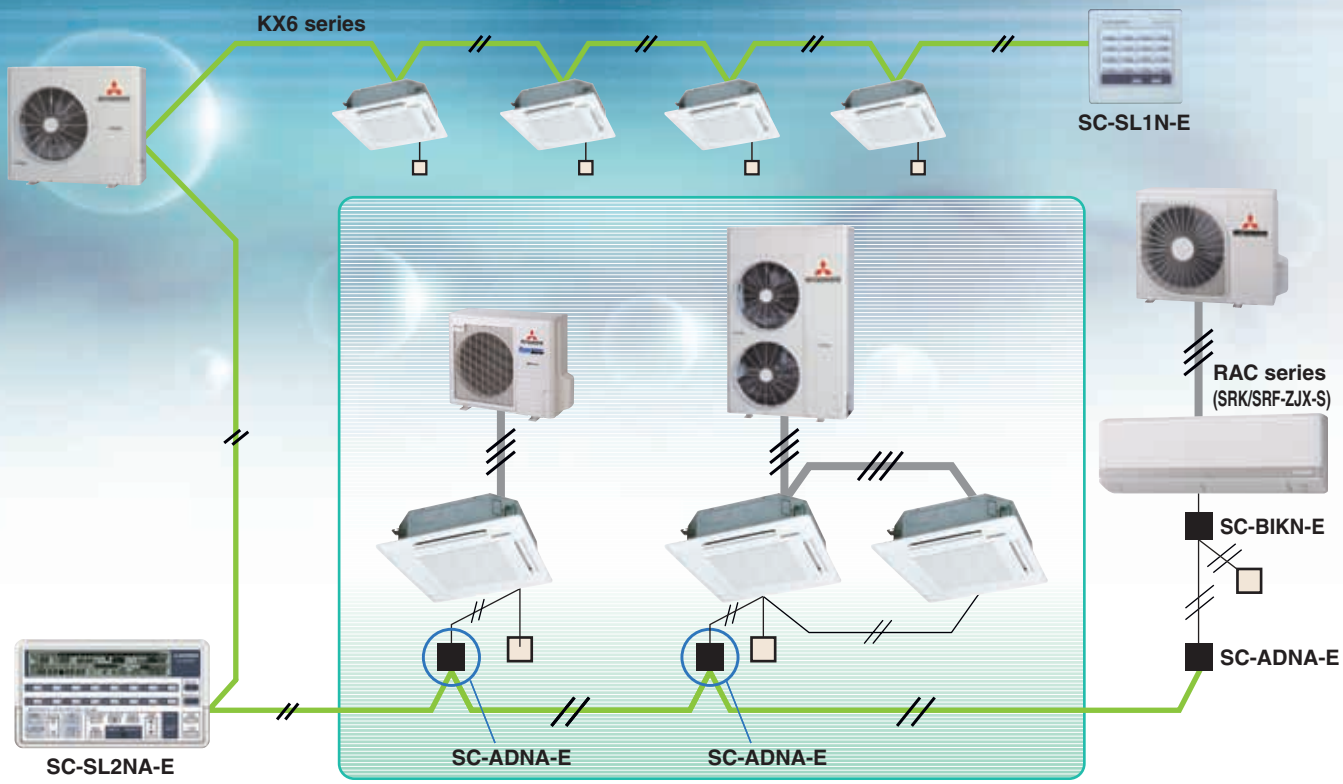
When wireless remote control is used, the fan has 3 speed settings (Hi-Me-Lo) only.

Thermistor (option)

SC-THB-E3

In case sensor in the indoor units or the remote control sensor can not sense the room temperature correctly, or individual remote control in each room is not required but only censor is required (as when center control system is in place), install SC-THB-E3 at proper place in the rooms.

Control System SUPERLINK-II

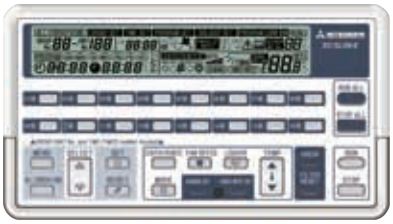


Central Control

SC-SL1N-E

Start/stop control of up to 16 indoor units is possible either individually or collectively. With simple operations, you can effect centralized control.

SC-SL2NA-E



Centralized control of up to 64 indoor units. It can allow connection with a weekly timer without using any interface.

SC-SL3N-AE/BE

Easy operation realized with a large color LCD and touch panel. Up to 128 indoor units can be controlled, when three SUPERLINK-Ⅱ systems are connected.

PC windows central control

SC-WGWNA-A/B

(SC-WGWNA-B is with electric power calculation function)

Up to 96 cells (some cells can have two or more indoor units and total number of indoor units can be up to 128 units) are controlled from the Internet Explorer.

Additional engineering service cost etc. is required. Please consult your dealer when using this central control.

BMS interface unit

SC-BGWN-A/B

(BACnet gateway)

(SC-WGWN-B is with electric power calculation function)

Up to 96 cells (some cells can have two or more indoor units and total number of indoor units can be up to 128 units) are controlled centrally from a BMS.

Additional engineering service cost etc. is required. In case of SC-BGWN-B, communication test by qualified person regarding electric cost calculation function is required before commissioning. Please consult your dealer when using this gateway.

SC-LGWN-A

(LonWorks gateway)

Up to 96 indoor units (48 indoor unit x 2) are linked as an open network! Centrally controlled through LonWorks!

Additional engineering service cost etc. is required. Please consult your dealer when using this gateway.

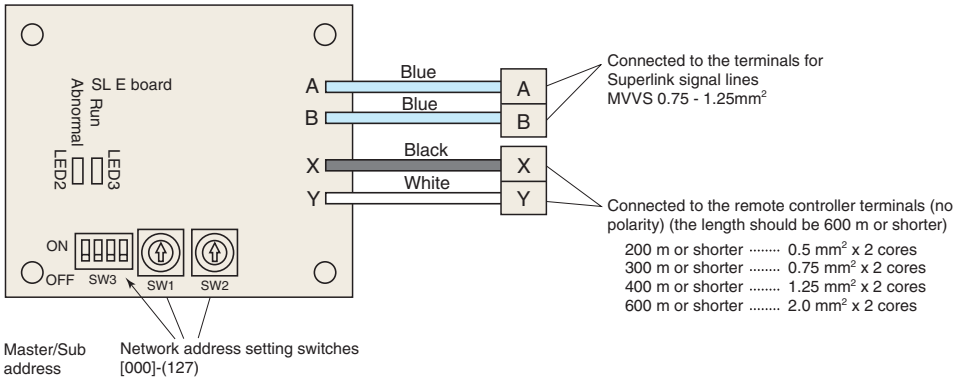
SUPERLINK E BOARD (SC-ADNA-E)

This board is used when conducting control of the single package (wired remote control unit) 1-type series using a network option (SC-SL1N-E, SC-SL2NA-E, etc).

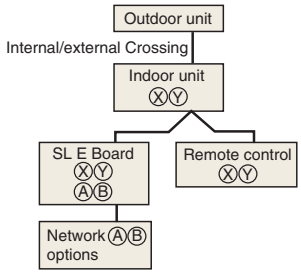
(1) Functions

(a) Transmits the settings from the network option to the indoor units.
(b) Returns the priority indoor unit data in response to a data request from the network option.
(c) Inspects the error status of connected indoor units and transmits the inspection codes to the network option.
(d) A maximum of 16 units can be controlled (if in the same operation mode).

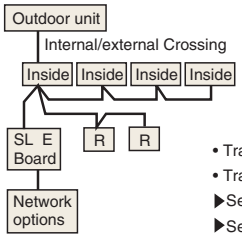
(2) Wiring connection diagram



Basic Connections

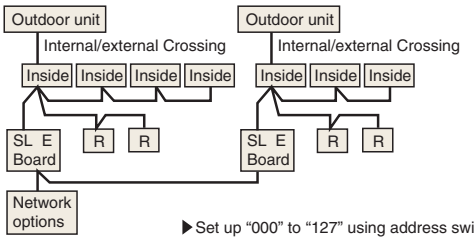


Plural Controls by Multiple Remote Controls. Mixture of Multiple Units



- Transmit the information of plural "Master" units to the network.
- Transmit the abnormalities of the "Slave" units to the network.
- ▶Setting the plural "Master/Slave" units with the dip SW of the printed circuit board.
- ▶Setting the "Master/Slave" remote controls with the dip SW of the remote control board.

Plural Controls by Multiple Remote Controls. Mixture of Multiple Units

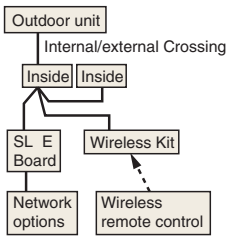


▶Set up "000" to "127" using address switch on the SL E board.

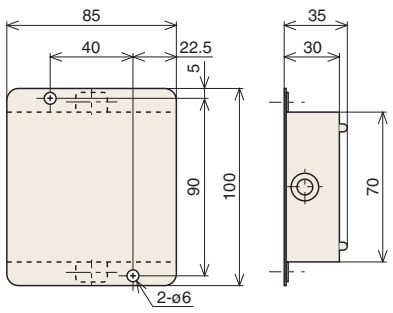
Without Remote Control

▶Set the SL E board dip SW to "Master" SW3-1 ON.
∗The network option SLA-1-E, SL1N-E is not allowed (This will disturb switching of the operation mode)

Wireless Kit



(3) Metal box dimension

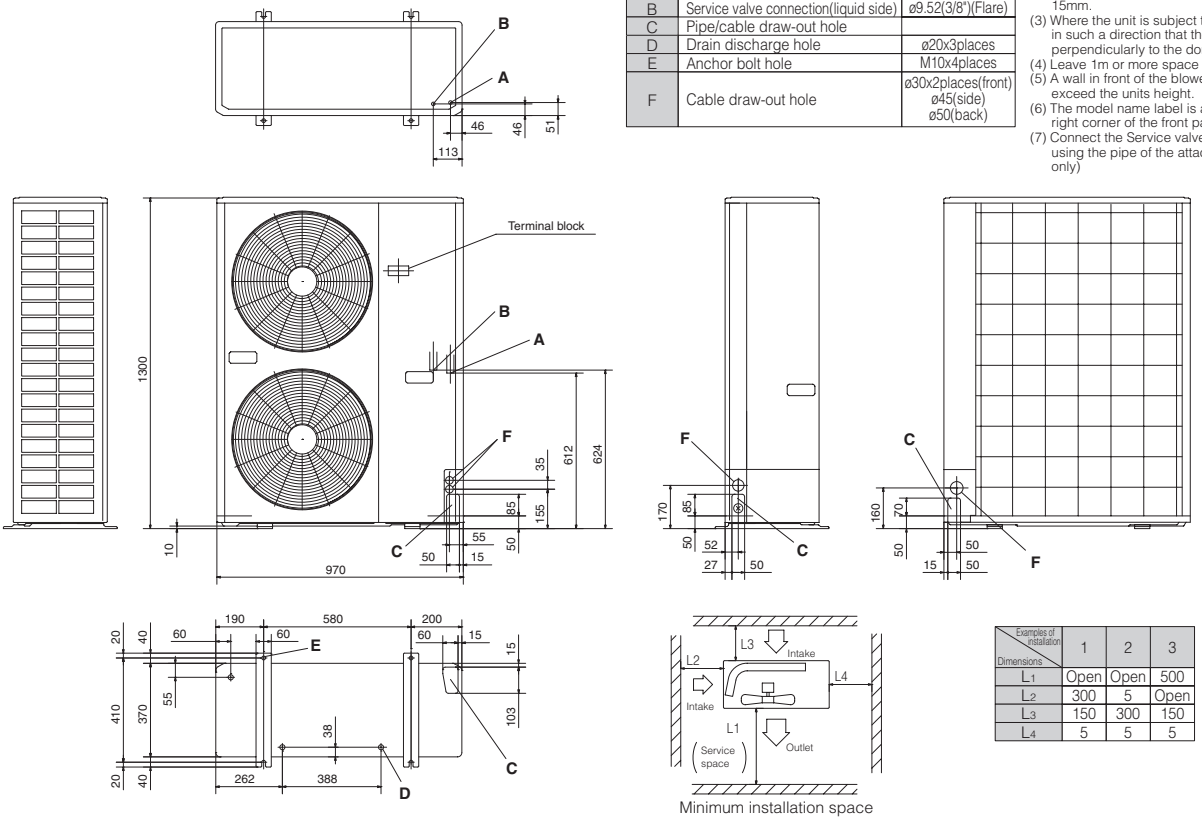


OUTDOOR UNIT DIMENSIONS

FDC100VNX, 100VSX, 125VNX, 125VSX, 140VNX, 140VSX (unit:mm)

Mark	Item	
A	Service valve connection of the attached connecting pipe(gas side)	ø15.88(5/8")(Flare)
B	Service valve connection(liquid side)	ø9.52(3/8")(Flare)
C	Pipe/cable draw-out hole	
D	Drain discharge hole	ø20x3places
E	Anchor bolt hole	M10x4places
F	Cable draw-out hole	ø30x2places(front) ø45(side) ø50(back)

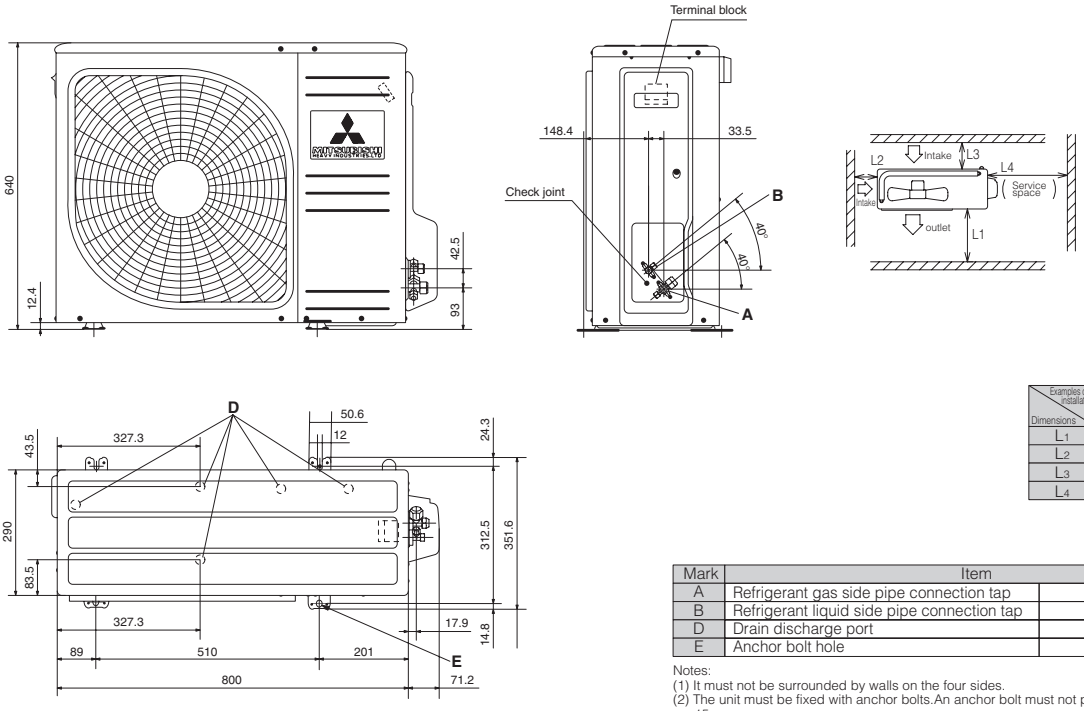
Notes:
(1) It must not be surrounded by walls on the four sides.
(2) The unit must be fixed with anchor bolts. An anchor bolt must not protrude more than 15mm.
(3) Where the unit is subject to strong winds, lay it in such a direction that the blower outlet faces perpendicularly to the dominant wind direction.
(4) Leave 1m or more space above the unit.
(5) A wall in front of the blower outlet must not exceed the units height.
(6) The model name label is attached on the lower right corner of the front panel.
(7) Connect the Service valve with local pipe by using the pipe of the attachment. (Gas side only)



Minimum installation space

Examples of installation / Dimensions	1	2	3
L_1	Open	Open	500
L_2	300	5	Open
L_3	150	300	150
L_4	5	5	5

SRC40ZIX-S, 50ZIX-S, 60ZIX-S (unit:mm)



Examples of installation / Dimensions	1	2	3
L_1	Open	280	280
L_2	100	75	Open
L_3	100	80	80
L_4	250	Open	250

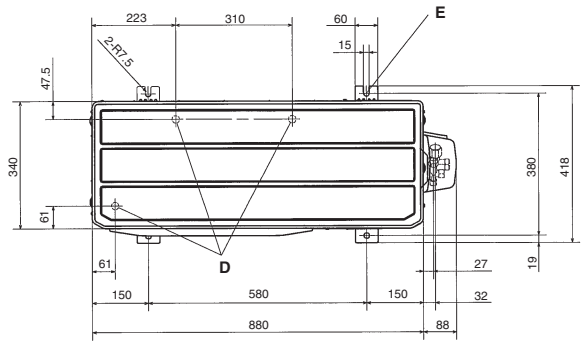
Mark	Item	
A	Refrigerant gas side pipe connection tap	ø12.7(flare)
B	Refrigerant liquid side pipe connection tap	ø6.35(flare)
D	Drain discharge port	Ø20.5x5places
E	Anchor bolt hole	M10x4places

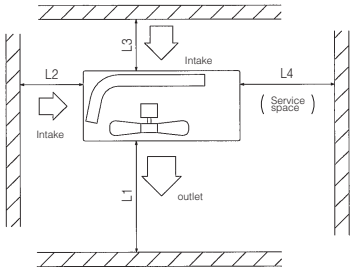
Notes:
(1) It must not be surrounded by walls on the four sides.
(2) The unit must be fixed with anchor bolts.An anchor bolt must not protrude more than 15mm.
(3) Where the unit is subject to strong winds, lay it in such a direction that the blower outlet faces perpendicularly to the dominant wind direction.
(4) Leave a 1m or larger space above the unit.
(5) A wall in front of the blower outlet must not exceed the units height.
(6) The unit name plate is attached on the lower right corner of the front panel.

FDC71VNX (unit:mm)

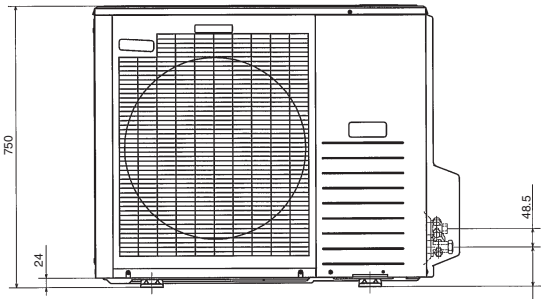
Mark	Item	
A	Service valve connection (gas side)	ø15.88(5/8") (Flare)
B	Service valve connection (liquid side)	ø9.52(3/8") (Flare)
C	Pipe/cable draw-out hole	
D	Drain discharge hole	ø20x3places
E	Anchor bolt hole	M10x4places

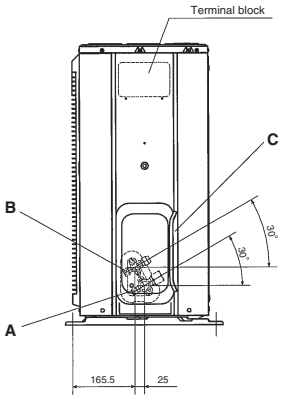
Notes:
(1) It must not be surrounded by walls on the four sides.
(2) The unit must be fixed with anchor bolts. An anchor bolt must not protrude more the 15mm.
(3) Where the unit is subject to strong winds, lay it in such a direction that the blower outlet faces perpendicularly to the dominant wind direction.
(4) Leave 1m or more space above the unit.
(5) A wall in front of the blower outlet must not exceed the units height.
(6) The model name label is attached on the lower right corner of the front.





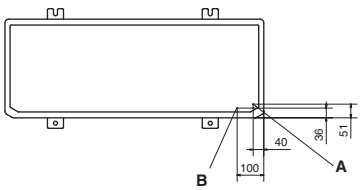
Minimum installation space





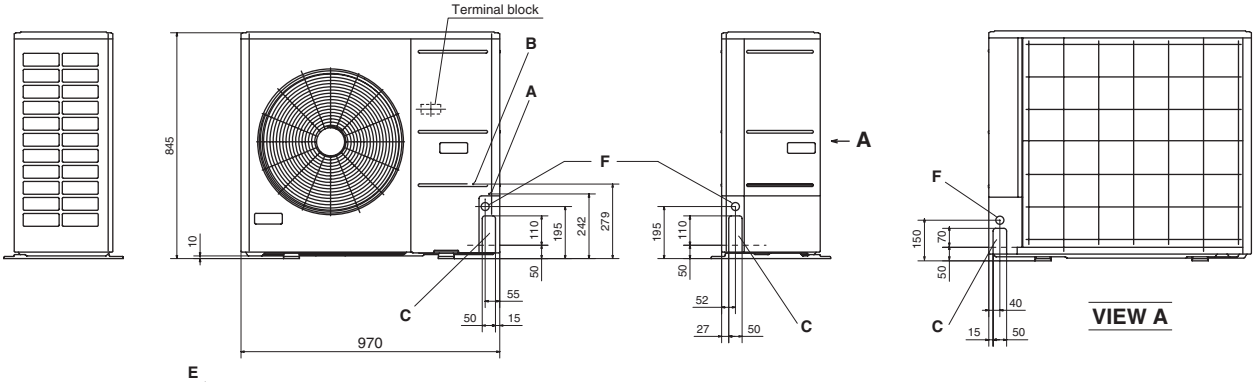
Examples of installation / Dimensions	1	2	3
L_1	Open	Open	500
L_2	300	250	Open
L_3	100	150	100
L_4	250	250	250

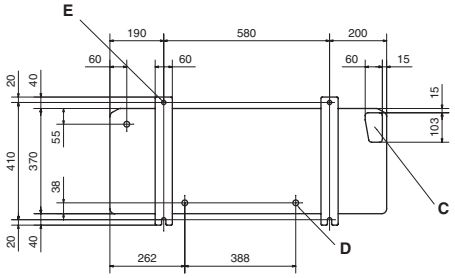
FDC100VN, 125VN, 140VN
100VS, 125VS, 140VS (unit:mm)

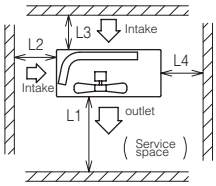


Mark	Item	
A	Refrigerant gas side pipe connection tap	ø15.88(flare)
B	Refrigerant liquid side pipe connection tap	ø9.52(flare)
C	Pipe/cable draw-out port	
D	Drain discharge port	ø20.3x3places
E	Anchor bolt hole	M10x4places
F	Cable draw-out port	ø30.3x3places

Notes:
(1) It must not be surrounded by walls on the four sides.
(2) The unit must be fixed with anchor bolts.An anchor bolt must not protrude more than 15mm.
(3) Where the unit is subject to strong winds, lay it in such a direction that the blower outlet faces perpendicularly to the dominant wind direction.
(4) Leave a 1m or larger space above the unit.
(5) A wall in front of the blower outlet must not exceed the units height.
(6) The unit name plate is attached on the lower right corner of the front panel.





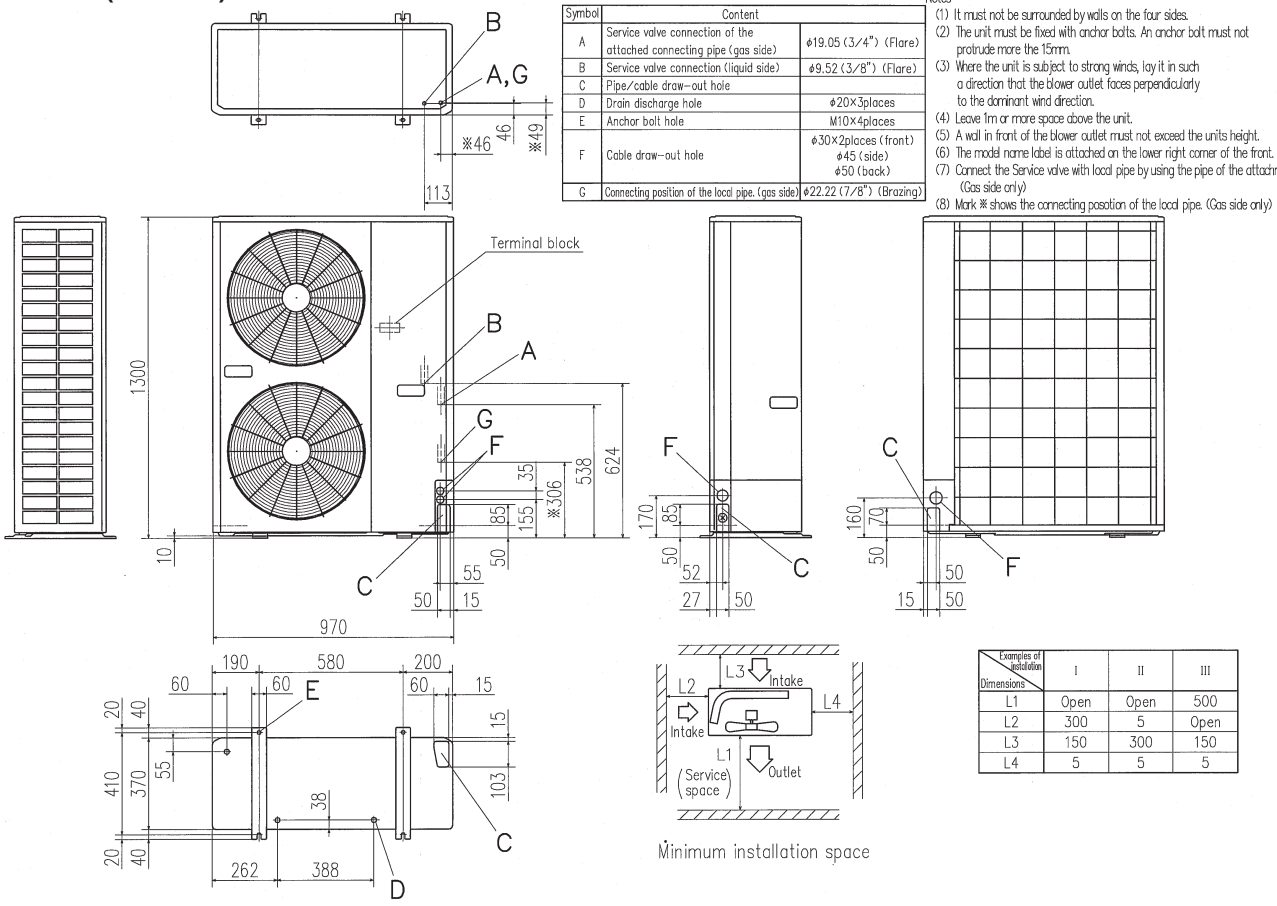


Minimum installation space

Examples of installation / Dimensions	1	2	3
L_1	Open	Open	500
L_2	300	5	Open
L_3	150	300	150
L_4	5	5	5

OUTDOOR UNIT DIMENSIONS

FDC200VS (unit:mm)



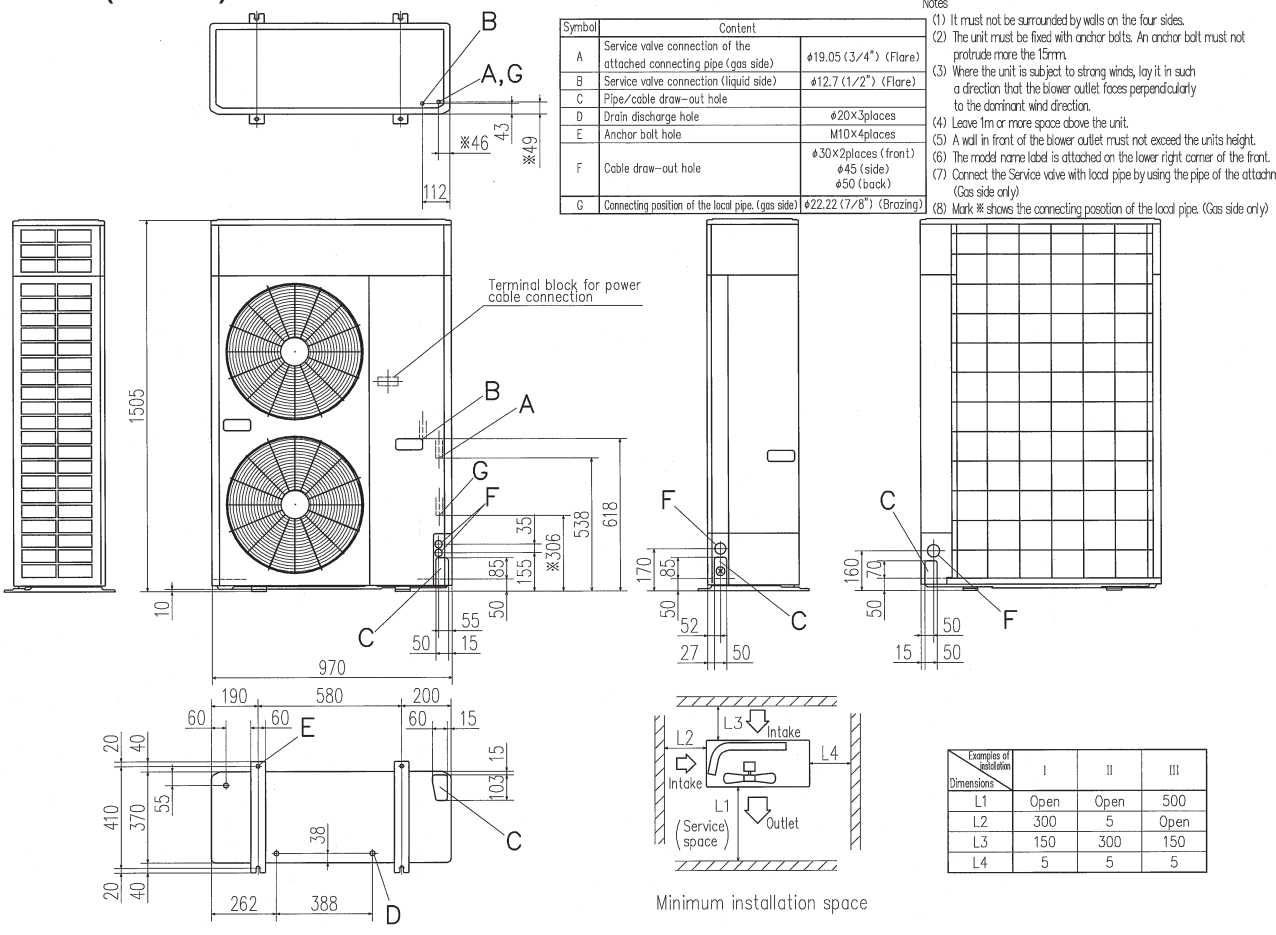
Symbol	Content	
A	Service valve connection of the attached connecting pipe (gas side)	ϕ19.05 (3/4") (Flare)
B	Service valve connection (liquid side)	ϕ9.52 (3/8") (Flare)
C	Pipe/cable draw-out hole	
D	Drain discharge hole	ϕ20×3places
E	Anchor bolt hole	M10×4places
F	Cable draw-out hole	ϕ30×2places (front) ϕ45 (side) ϕ50 (back)
G	Connecting position of the local pipe. (gas side)	ϕ22.22 (7/8") (Brazing)

Notes
(1) It must not be surrounded by walls on the four sides.
(2) The unit must be fixed with anchor bolts. An anchor bolt must not protrude more the 15mm.
(3) Where the unit is subject to strong winds, lay it in such a direction that the blower outlet faces perpendicularly to the dominant wind direction.
(4) Leave 1m or more space above the unit.
(5) A wall in front of the blower outlet must not exceed the units height.
(6) The model name label is attached on the lower right corner of the front.
(7) Connect the Service valve with local pipe by using the pipe of the attachment. (Gas side only)
(8) Mark ※ shows the connecting posotion of the local pipe. (Gas side only)

Minimum installation space

Examples of installation / Dimensions	I	II	III
L1	Open	Open	500
L2	300	5	Open
L3	150	300	150
L4	5	5	5

FDC250VS (unit:mm)



Symbol	Content	
A	Service valve connection of the attached connecting pipe (gas side)	ϕ19.05 (3/4") (Flare)
B	Service valve connection (liquid side)	ϕ12.7 (1/2") (Flare)
C	Pipe/cable draw-out hole	
D	Drain discharge hole	ϕ20×3places
E	Anchor bolt hole	M10×4places
F	Cable draw-out hole	ϕ30×2places (front) ϕ45 (side) ϕ50 (back)
G	Connecting position of the local pipe. (gas side)	ϕ22.22 (7/8") (Brazing)

Notes
(1) It must not be surrounded by walls on the four sides.
(2) The unit must be fixed with anchor bolts. An anchor bolt must not protrude more the 15mm.
(3) Where the unit is subject to strong winds, lay it in such a direction that the blower outlet faces perpendicularly to the dominant wind direction.
(4) Leave 1m or more space above the unit.
(5) A wall in front of the blower outlet must not exceed the units height.
(6) The model name label is attached on the lower right corner of the front.
(7) Connect the Service valve with local pipe by using the pipe of the attachment. (Gas side only)
(8) Mark ※ shows the connecting posotion of the local pipe. (Gas side only)

Minimum installation space

Examples of installation / Dimensions	I	II	III
L1	Open	Open	500
L2	300	5	Open
L3	150	300	150
L4	5	5	5

Before starting use

Heating performance
The heating performance values (kW) described in catalog are the values obtained by operating at an outdoor temperature of 7℃ and indoor temperature of 20℃ as set forth in the ISO Standards. As the heating performance decreases as the outdoor temperature drops, if the outdoor temperature is too low and the heating performance is insufficient, use other heating appliances as well.

Indication of sound values
The sound values are the values (A scale) measured in a chamber such as an anechoic chamber following the ISO Standards. In the actual installation state, the value is normally larger than the values given in the catalog due to the effect of surrounding noise and echo. Take this into consideration when installing.

Use in oil atmosphere
Avoid installing this unit in as atmosphere where oil scatters or builds up, such as in a kitchen or machine factory.
If the oil adheres to the heat exchanger, the heat exchanging performance will drop, mist may be generated, and the synthetic resin parts may deform and break.

Use in acidic or alkaline atmosphere
If this unit is used in acidic atmosphere such as hot spring areas having high level of sulfuric gases or in alkaline atmosphere including ammonia or calcium chloride, places where the exhaust of the heat exchanger is sucked in, or at coastal areas where the unit is subject to salt breezes, the outer plate or heat exchanger, etc., will corrode. Please ask a dealer or specialist when you use an air conditioner in places differing from a general atmosphere.

Use in places with high ceilings
If the ceiling is high, install a circulator to improve the heat and air flow distribution when heating.

Refrigerant leakage
The refrigerant (R410A) used for Air conditioner is non-toxic and inflammable in its original state.
However, in consideration of a state where the refrigerant leaks into the room, measures against refrigerant leaks must be taken in small rooms where the tolerable level could be exceeded. Take measures by installing ventilation devices, etc.

Use in snowy areas
Take the following measures when installing the outdoor unit in snowy areas.

·Snow prevention
Install a snow-prevention hood so that the snow does not obstruct the air intake port or enter and freeze in the outdoor unit.

·Snow piling
In areas with heavy snow fall, the piled snow could block the air intake port. In this case, a frame that is 50cm or higher than the estimated snow fall must be installed underneath the outdoor unit.

Automatic defrosting device
If the temperature is low, and the humidity is high, frost will stick to the heat exchanger of the outdoor unit. If use is continued, the heating performance will drop.
The "Automatic defrosting device" will function to remove this frost.
After heating for approx, three to ten minutes, it will stop, and the frost will be removed. After defrosting, hot air will be blown again.

Servicing the air-conditioner
After the air-conditioner is used for several seasons, dirt will build up in the air-conditioner causing the performance to drop. In addition to regular servicing, we recommend the maintenance contract (charged for) by a specialist.

⚠ Safety Precautions

Air-conditioner usage target
The air-conditioner described in this catalog is a dedicated cooling/heating device for human use.
Do not use it for special applications such as the storage of foodstuffs, animals or plants, precision devices or valuable art, etc.
This could cause the quality of the items to drop, etc.
Do not use this for cooling vehicles or ships. Water leakage or current leaks could occur.

Before use
Always read the "User's Manual" thoroughly before starting use.

Installation
Always commission the installation to a dealer or specialist. Improper installation will lead to water leakage, electric shocks and fires.
Make sure that the outdoor unit is stable in installation. Fix the unit to stable base.

Usage place
Do not install in places where combustible gas could leak or where there are sparks.
Installation in a place where combustible gas could be generated, flow or accumulate, or places containing carbon fibers could lead to fires.

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Air-conditioning & Refrigeration Systems Headquarters
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HB91-10P01E-A-0 February 2010(3B)R

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Printed in Japan